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1992

GUIDE TO TRAINING OPPORTUNITIES FOR INDUSTRIAL DEVELOPMENT
(Twentieth issue)

APERÇU DES MOYENS DE FORMATION POUR LE DÉVELOPPEMENT INDUSTRIEL
(Vingtième édition)

REPERTORIO DE OPORTUNIDADES DE CAPACITACIÓN PARA EL DESARROLLO INDUSTRIAL
(Vigésima edición)
The designations "developed" and "developing" countries are intended for technical convenience and do not, necessarily, express a judgement about the stage reached by a particular country or area in the development process.

* * *

Les expressions "pays développés" et "pays en développement" ont un sens purement technique et n'expriment pas nécessairement un jugement sur le stade de développement atteint par tel ou tel pays ou zone.

* * *

Las designaciones "países desarrollados" y "países en desarrollo" se han adoptado con fines técnicos, y su empleo no necesariamente entraña la expresión de un juicio sobre la etapa alcanzada por un país o región en el proceso de desarrollo.
Preface

This compilation of industrial training opportunities for personnel from developing countries is the twentieth issue of a publication which first appeared in 1972. It conforms to the Constitution of the United Nations Industrial Development Organization (UNIDO), adopted in April 1979, which includes, among other functions of the Organization:

"Organize and support industrial training programmes aimed at assisting the developing countries in the training of technical and other appropriate categories of personnel needed at various phases of their accelerated industrial development."

The Guide is based on the replies to a questionnaire, sent to Governments, organizations, institutions and other bodies concerned with industrial training, in which information about their training activities was solicited. To reduce the size of this volume, entries listed in earlier issues have not been repeated unless a specific request was received from the organizer.

The Guide is divided into three chapters:

I. Training opportunities organized and offered by UNIDO (yellow pages);
II. Training opportunities offered by institutions in developed and developing countries, classified by industrial branches and industrial functions;
III. Courses of short duration and other courses that may be of interest as such or as part of longer, more comprehensive training programmes, offered by institutions other than UNIDO.

In chapter I, training opportunities are listed in chronological order, and in chapters II and III by country, in English alphabetical order.

To keep the size of the Guide within certain limits, series of different courses of short duration, offered by the same organizer, have been grouped under a common heading. It is hoped that this will not inconvenience the reader to identify relevant courses.

The classification of courses is basically branch-oriented. This means that subjects dealing with an industrial function, but relevant only to a given industrial branch, will be included in the section referring to that branch. For example, a course on "Quality control in ammonium-urea plants" will appear in section "Chemical industries". Similarly, an effort was made to put emphasis on the basic activity when classifying courses relevant to more than one industrial function. A course on "Computer application in management" will be listed in section "Management and industrial administration".

According to its mandate, UNIDO is to increase or update the professional skills of technical, managerial and administrative personnel, including entrepreneurs, engaged in industry and its development. Therefore, with a few exceptions, academic courses that are part of the regular curricula of universities, vocational training institutes or similar institutions are not included in the Guide, since such activities fall within the competence of the International Labour Organisation
(ILO) or the United Nations Educational, Scientific and Cultural Organization (UNESCO). Similarly, part-time courses are not included.

UNIDO is not in a position to give further details on the courses contained in chapters II and III; such additional information should be obtained by contacting the organizer, using the mailing address given in each entry. Further information on UNIDO training activities (chapter I) is contained in the “UNIDO Industrial Training Offer Programme 1992”, which can be requested from the Industrial Human Resource Development Branch of UNIDO.

The training opportunities listed in the Guide are not limited to holders of UNIDO fellowships. Any qualified individual from a developing country may apply for a course or be nominated to attend. Such applications or nominations should be sent directly to the organizer of the course. Applicants for UNIDO fellowships, however, must be nominated by their respective Government, and nominations should be routed through the local Resident Representative of the United Nations Development Programme (UNDP) to UNIDO.

It is hoped that this issue of the Guide will continue to assist individuals in developing countries who seek industrial training to identify suitable courses. The twenty-first issue of the Guide, which will cover courses offered in 1993, is scheduled to appear in late 1992.
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Préface

Le présent Répertoire des possibilités de formation industrielle offertes aux cadres de pays en développement est la vingtième édition d'un document publié pour la première fois en 1972. Il est conforme à l'Acte constitutif de l'Organisation des Nations Unies pour le développement industriel (ONUDI), adopté en avril 1979, qui cite parmi les fonctions de l'Organisation celles qui consistent à :

"Organiser et favoriser des programmes de formation industrielle visant à aider les pays en développement à former le personnel technique et les autres personnels appropriés nécessaires à divers stades pour leur développement industriel accéléré."

Le présent Répertoire a été établi d'après les renseignements fournis par un certain nombre de gouvernements, d'organisations et d'institutions s'occupant de formation industrielle, en réponse à un questionnaire sur les possibilités de formation qu'ils offraient. Afin de condenser la présente édition, les rubriques qui figuraient déjà dans les éditions précédentes n'ont été réinsérées que sur la demande expresse des organisateurs.

Ce Répertoire comprend trois chapitres :

I. Possibilités de formation offertes par l'ONUDI elle-même (pages jaunes);

II. Possibilités de formation offertes par des institutions des pays développés et en développement, classées par secteur industriel et fonction industrielle;

III. Stages de courte durée et stages n'entrant pas dans les catégories précitées qui présentent un intérêt en eux-mêmes ou qui peuvent utilement s'insérer dans des programmes de formation plus longs et plus vastes offerts par des institutions autres que l'ONUDI.

Pour le chapitre premier, on a adopté l'ordre chronologique, tandis que, dans les chapitres II et III, les possibilités de formation énumérées sont classées dans l'ordre alphabétique anglais des pays hôtes.

Afin de conserver au répertoire des dimensions raisonables, les différents stages de courte durée offerts par une même organisation ont été regroupés sous une rubrique commune. On espère que cette présentation n'empêchera pas le lecteur de repérer les stages qui l'intéressent.

Les stages sont classés essentiellement par secteur industriel. Les sujets traitant d'une fonction industrielle, mais n'intéressant qu'un secteur industriel particulier, relèvent aussi de la section concernant ce secteur. Par exemple, un stage sur le "contrôle de la qualité dans les usines d'ammoniac et d'uree" figurera dans la section "industrie chimique". De même, on s'est employé à mettre en évidence l'activité principale pour classer des stages se rapportant à deux fonctions industrielles ou plus : un stage sur "l'application de l'informatique à la gestion" aura donc sa place dans la section "gestion et administration industrielle".

L'ONUDI a pour mandat d'améliorer ou de mettre à jour les compétences professionnelles des techniciens, des gestionnaires et des administrateurs de haut
niveau, et notamment des chefs d’entreprise, qui travaillent dans l’industrie et participent à son développement. À quelques exceptions près, les matières figurant ordinairement aux programmes des universités, des instituts de formation professionnelle et des établissements similaires n’ont pas été retenues, car elles relèvent de la compétence de l’Organisation internationale du Travail (OIT) ou de l’Organisation des Nations Unies pour l’éducation, la science et la culture (UNESCO). Il en a été de même pour les stages à temps partiel.

L’ONUDI n’est pas en mesure de fournir des détails supplémentaires sur les stages cités aux chapitres II et III; on s’adressera à cette fin à l’organisateur lui-même, dont l’adresse postale figure sous chaque rubrique. On trouvera des renseignements complémentaires sur les activités de formation de l’ONUDI (chap. 1er) dans la brochure intitulée “Programme de formation industrielle proposé par l’ONUDI pour 1992”, que l’on peut obtenir auprès du Service de la mise en valeur des ressources humaines pour l’industrie de l’ONUDI.

Les moyens de formation indiqués ne sont pas réservés exclusivement aux titulaires de bourses de l’ONUDI. S’il remplit les conditions requises, tout ressortissant d’un pays en développement peut demander à participer à l’un de ces stages ou à être désigné pour y participer. Dans ce cas, les demandes ou les candidatures doivent être présentées directement à l’organisateur du stage considéré. Les candidats à des bourses de l’ONUDI, quant à eux, doivent être désignés par leur gouvernement, et leurs dossiers doivent être soumis à l’Organisation par l’intermédiaire du représentant résident local du Programme des Nations Unies pour le développement (PNUD).

L’ONUDI espère que la présente publication sera aussi utile que les précédentes à ceux qui, dans les pays en développement, ont besoin d’une formation industrielle. La vingt et unième édition du Répertoire, qui indiquera les possibilités de formation offertes pour l’année 1993, devrait être publiée à la fin de 1992.
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Prefacio

La presente compilación de oportunidades de capacitación industrial para personal de países en desarrollo constituye la vigésima edición de una publicación que apareció por vez primera en 1972. Se ajusta a la Constitución de la Organización de las Naciones Unidas para el Desarrollo Industrial (ONUDI) aprobada en abril de 1979, que prescribe, entre otras funciones de la Organización, la siguiente:

"Organizará y apoyará programas de capacitación industrial tendientes a prestar asistencia a los países en desarrollo en la capacitación de personal técnico y de otras categorías pertinentes que resulte necesario en diversas fases para su desarrollo industrial acelerado."

Dicha compilación o Repertorio se basa en las respuestas a un cuestionario enviado a gobiernos, organizaciones, instituciones u otras entidades que se ocupan de la capacitación industrial, en el que se solicitaba información sobre sus respectivas actividades de capacitación. A fin de reducir las dimensiones de esta edición, no se ha repetido ninguna entrada que figurase en ediciones anteriores salvo cuando se ha recibido una solicitud expresa de la entidad organizadora.

El Repertorio se divide en tres capítulos:

I. Oportunidades de capacitación organizada y ofrecida por la ONUDI (páginas amarrillas);

II. Oportunidades de capacitación ofrecidas por instituciones en países desarrollados y en desarrollo, clasificadas por ramas industriales y funciones industriales;

III. Cursos de corta duración y otros cursos que puedan ofrecer interés por sí mismos o como componentes de programas de capacitación de contenido más amplio, ofrecidos por instituciones distintas de la ONUDI.

En el capítulo I las oportunidades de capacitación se enumeran por orden cronológico, y en los capítulos II y III se presentan en el orden alfabético inglés de los nombres de los países en que se ofrece la capacitación.

A fin de limitar las dimensiones del Repertorio se agrupan bajo un encabezamiento común series de diferentes cursos de corta duración ofrecidos por el mismo organizador. Se espera que ello no causará entorpecimientos al lector para encontrar los cursos que le interesen.

Los cursos se clasifican fundamentalmente por normas. Esto significa que los temas relativos a una función industrial, pero pertinentes tan solo a una rama determinada, figurarán en la sección referente a esa rama. Por ejemplo, un curso sobre "Control de calidad en fábricas de amoníaco-urea" aparece en la sección "Industrias químicas". Análogamente, se procuró destacar la actividad básica al clasificar cursos concernientes a más de una función industrial; p. ej., un curso sobre "Aplicación de la informática en la gestión" figurará en la sección "Gestión y administración industrial".

Conforme a su mandato, la ONUDI ha de acrecentar e actualizar la competencia profesional del personal técnico, directivo y administrativo, incluidos los empresarios, dedicado a actividades relacionadas con la industria y el desarrollo...
Por consiguiente, con escasas excepciones, no se han incluido en el *Repertorio* los cursos académicos que forman parte de los planes de estudio ordinarios de universidades, institutos de capacitación profesional o instituciones similares, ya que tales actividades son de la competencia de la Organización Internacional del Trabajo (OIT) o de la Organización de las Naciones Unidas para la Educación, la Ciencia y la Cultura (UNESCO). Tampoco se incluyen los cursos a tiempo parcial.

La ONUDI no está en condiciones de dar más detalles sobre los cursos enumerados en los capítulos II y III; la información suplementaria al respecto debe obtenerse solicitándola al organizador, cuya dirección postal figura junto a cada entrada. En el “Programa de Ofertas de Capacitación Industrial de la ONUDI para 1992”, que puede solicitarse a la Subdivisión de Perfeccionamiento de Recursos Humanos Industriales de la ONUDI, se ofrece más información sobre las actividades de capacitación de la Organización (capítulo I).

Las oportunidades de capacitación indicadas en el *Repertorio* no se ofrecen sólo a becarios de la ONUDI. Cualquier persona calificada de un país en desarrollo puede solicitar su admisión o ser presentada como candidato para participar en uno de estos cursos. *En cambio, las candidaturas a becas de la ONUDI deben ser presentadas a la Organización por los respectivos gobiernos, por conducto del Representante Residente local del Programa de las Naciones Unidas para el Desarrollo (PNUD).*

Se espera que esta edición del *Repertorio* siga siendo de utilidad para que las personas de los países en desarrollo que desean recibir capacitación industrial encuentren los cursos adecuados. La publicación de la vigésima primera edición del *Repertorio*, que comprenderá los cursos que vayan a ofrecerse en 1993, está prevista para finales de 1992.
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Chapter I. Training opportunities offered by UNIDO

UNIDO organizes group-training programmes for technical and managerial personnel in industry and industrial institutions in developing countries, in cooperation with Governments, firms and organizations having specialized knowledge and experience in a particular field. The training offered includes in-plant group-training programmes, which last from two to five months, and seminars and other group-training programmes, lasting for several weeks.

The objectives of the in-plant group-training programmes are to furnish the participants with intensive practical experience in a relatively short time and to upgrade their theoretical knowledge. The programmes are monitored by experts and usually include four elements: a theoretical introduction, lectures, in-plant training and study tours. During an evaluation session at the end of each programme, participants assess the value and applicability of their newly acquired skills and knowledge in the light of conditions in their home country. Seminars and other group-training programmes have the same objectives: they offer theoretical instruction and, to the extent feasible, practical work.

This chapter contains UNIDO training activities scheduled for 1992, their implementation being subject to the availability of funds. For each training event it is indicated whether the programme is regional or interregional, as well as the language in which it will be conducted; participants must be proficient in that language in order to derive maximum benefit from the programme.

Formal applications should be submitted to UNIDO through appropriate government channels and UNDP resident representatives only after the official invitation requesting nomination of candidates has been received. Apart from that, however, Governments are requested to notify UNIDO as early as possible of their interest in participating, and any queries regarding these programmes should reach UNIDO as far in advance as possible.

The general requirements for admission are a university degree or equivalent and several years of practical experience in the particular field.

Further information may be obtained from:

Industrial Human Resource Development Branch
Department of Industrial Operations
United Nations Industrial Development Organization
P.O. Box 300
A-1400 Vienna, Austria
Chapitre premier. Possibilités de formation offertes par l'ONUDI

L'ONUDI organise, en coopération avec les gouvernements des pays hôtes et avec le concours d'entreprises industrielles et d'institutions spécialisées dans les domaines considérés, des stages de formation en groupe à l'intention du personnel technique et des cadres de gestion des entreprises et instituts industriels des pays en développement. La formation proposée comprend des stages de formation collective en entreprise, qui durent de deux à cinq mois, et des séminaires ou autres stages de formation collective, qui durent plusieurs semaines.

Les stages de formation collective en entreprise ont pour objectifs de permettre aux participants d'acquérir, dans un laps de temps relativement court, une solide expérience pratique et de parfaire leurs connaissances théoriques. Ils sont dirigés par des experts et comprennent en général quatre parties, à savoir une introduction théorique, des conférences, une formation pratique dans des entreprises et des visites d'établissements. Tous les stages se terminent par une session d'évaluation au cours de laquelle les participants évaluent l'intérêt et la valeur pratique des compétences et des connaissances qu'ils viennent d'acquérir à la lumière des conditions existant dans leur pays d'origine. Les séminaires et autres stages de formation collective répondent aux mêmes objectifs et comportent une formation théorique et, dans la mesure du possible, des travaux pratiques.

Le présent chapitre mentionne toutes les activités de formation de l'ONUDI prévues pour 1992 sous réserve que l'ONUDI dispose des fonds nécessaires à leur exécution. Les programmes sont organisés sur une base régionale ou interrégionale; ceci est clairement indiqué pour chacun des programmes figurant dans la liste, de même que la langue dans laquelle il se déroulera; il est essentiel que les participants maîtrisent cette langue pour retirer le maximum de bénéfice du programme.

Les candidatures ne doivent être présentées par l'intermédiaire des services officiels compétents et du représentant résident du PNUD qu'après réception de l'invitation officielle demandant l'envoi de candidatures. Les gouvernements sont, en outre priés de faire savoir le plus rapidement possible à l'ONUDI s'ils envisagent de présenter des candidats à tel ou tel stage. Toute demande d'information concernant les programmes doit parvenir à l'ONUDI le plus tôt possible.

Les conditions générales d'admission sont les suivantes : être titulaire d'un diplôme universitaire (ou l'équivalent) et justifier de plusieurs années d'expérience dans le domaine sur lequel porte la formation.

De plus amples renseignements peuvent être obtenus à l'adresse suivante :
Service de la mise en valeur des ressources humaines pour l'industrie
Département des opérations industrielles
Organisation des Nations Unies pour le développement industriel
R. P. 300
A-1400 Vienne
Autriche
Capítulo I. Oportunidades de capacitación ofrecidas por la ONUDI

La ONUDI, con la colaboración de diversos gobiernos así como empresas y organizaciones poseedoras de experiencia y conocimientos especializados en determinadas esferas, organiza programas de capacitación colectiva destinados a personal administrativo y técnico de categoría superior de la industria y las instituciones industriales de países en desarrollo. La capacitación ofrecida incluye programas de capacitación colectiva en el trabajo, que duran de dos a cinco meses, y seminarios y otros programas de capacitación colectiva, de varias semanas de duración.

Los objetivos de los programas de capacitación colectiva en el trabajo consisten en dar a los participantes, en un espacio de tiempo relativamente corto, la posibilidad de adquirir experiencia práctica intensiva y de ampliar sus conocimientos teóricos. Los programas son supervisados por expertos y, en general, constan de cuatro elementos: una introducción teórica, conferencias, capacitación en el trabajo y viajes de estudio. En una sesión de evaluación que tiene lugar al final de cada programa, los participantes juzgan, a la luz de las circunstancias existentes en sus respectivos países, la utilidad y posibilidad de aplicación de la competencia y conocimientos recién adquiridos. Los seminarios y demás programas de capacitación colectiva tienen los mismos objetivos, ofrecen enseñanza teórica y, en la medida de lo posible, estudios prácticos.

Este capítulo contiene actividades de capacitación de la ONUDI previstos para 1992 si bien su realización está sujeta a la disponibilidad de fondos. Se indica, para cada actividad de capacitación ofrecida, si el programa tiene carácter regional o interregional, así como la lengua que se usará para dicha actividad; los participantes han de conocer bien esta lengua para sacar el máximo provecho del programa.

Las solicitudes oficiales de participación deben presentarse a la ONUDI a través de los conductos gubernamentales apropiados y por medio de los representantes residentes del PNUD, pero sólo después de recibida la invitación oficial en la que se pide la designación de candidatos. No obstante, se ruega a los gobiernos que notifiquen a la ONUDI, lo antes posible, su interés por participar en estos programas; asimismo, cualquier pregunta concerniente a los programas debe ser recibida en la ONUDI con la mayor antelación posible.

Los requisitos generales de admisión son un título universitario (o su equivalente) y varios años de experiencia práctica en la esfera respectiva.

Puede obtenerse información más amplia escribiendo a:

Subdivisión de Perfeccionamiento de Recursos Humanos Industriales
Departamento de Operaciones Industriales
Organización de las Naciones Unidas para el Desarrollo Industrial
P.O. Box 300
A-1400 Viena (Austria)
JANUARY/JANVIER/ENERO

Production management in manufacturing industry

Short description: Role of factory managers; scientific production; management techniques; problem solving and decision-making; human motivation and training; practical application of modern production-management techniques in Japanese industries. Duration: 5 weeks. Invited countries: Interregional programme. Qualifications: Factory managers, production managers or managers having production-management responsibility; at least 3 years of managerial experience. English.

Host institution: Association for Overseas Technical Scholarship
Tokyo, Japan

MARCH/MARS/MARZO

Industrial utilization of medicinal plants

Short description: Presentation and discussion covering the following aspects: assessment of medicinal plants and potential in developing countries; process technology—use of polyvalent pilot plants, standardization of methods of analysis, clinical assessment and regulatory requirements, marketing. Duration: 4 days. Invited countries: Interregional programme. Qualifications: Post-graduate degree and extensive experience in pharmaceutical industry. English.

Host institution: Inverni della Beffa Group
Milan, Italy

Maintenance and repair of machine tools in metalworking industry

Short description: Planning, execution and supervision of the manufacturing processes of machine parts; design of jigs and fixtures, design and use of cutting tools; operation and maintenance, quality control and economics of metalworking operations; practical studies in laboratories and in-plant training in metalworking (12 to 15 machine-producing factories). Duration: March-June. Invited countries: Interregional programme. Qualifications: Degree in mechanical engineering or equivalent; at least 3 years of experience in a supervisory or managerial capacity in metalworking, particularly machine-tool operations, planning, manufacture and maintenance and repair. English.

Host institution: Lumumba University
Moscow, Union of Soviet Socialist Republics

Rehabilitation of railway equipment

Seminar on technology and financing

Short description. Lectures and discussions on issues relating to the financing of transfer, acquisition, adaptation and development of technology. Duration: 1 week, March or April. Invited countries. Regional programme for Latin America. Qualifications. University degree or extensive experience in matters related to the transfer, development, adaptation and financing of technology. Spanish.

Host institution. ALIDE
Lima, Peru

Technology and equipment in electric welding

Short description. Basic theory of welding: processes and equipment of fusion welding, manual arc welding, gas shielded welding, submerged arc welding, electroslag welding, gas, plasma welding and cutting, electron-beam welding, brazing and soldering, surfacing; processes and equipment of pressure welding; technology for welding of various structural materials; principles of fabrication of welded structures; organizational and economical aspects of welding production and training of welding specialists. Training in plants manufacturing electric welding equipment, in the metalworking industry as well as in laboratories. Duration: March-July. Invited countries. Interregional programme. Qualifications. Degree in electrical or mechanical engineering or equivalent; at least 3 years of experience related to electric welding. English.

Host institution. E. O. Paton Institute of Electric Welding
Kiev, Ukrainian Soviet Socialist Republic
(with visits to Minsk, Leningrad, Zaporoshye, Kherson)

Wheat milling and storage (with training of trainers)

Short description. Phase I covers technological aspects: technology and equipment of silos, flour mills; production of loose and granulated mixed fodders; quality control of grain, mixed fodders and flour. Lecture-type instruction, laboratory practices and in-plant training in selected enterprises. Phase II covers training of trainers: personnel management concept; management of the training function in the plant; determination and analysis of training needs; concepts of learning psychology; use and development of audio visual aids and materials for training; individualized and group training methods; curriculum development, evaluation and follow-up of training; training of managers and workers, practice in conducting training sessions. Duration: March-June. Invited countries. Interregional programme. Qualifications. Degree in technology or equivalent; managerial or supervisory post in a grain milling enterprise or in a governmental or semi-governmental body dealing with grain milling enterprises; at least 3 years of experience. Candidates are expected to carry out training activities in their home countries upon completion of the programme. English.

Host institution. Institute for advanced Training of Managers and Specialists of the USSR Ministry of State Purchases
Moscow, Union of Soviet Socialist Republics
APRIL/AVRIL/ABRIL

Cement industry technology

Short description: Technical aspects of cement industry including feasibility studies, raw materials, production management technologies, quality control, maintenance, energy conservativ, pollution and pollution control. Duration: 5 weeks. Invited countries: Interregional programme. Qualifications: Degree in chemical, mechanical, electrical or other relevant branch of engineering; 1-5 years of experience; employed in cement industry. English.

Host institution: Cement Research and Development Centre
Ankara, Turkey

Experimental workshop on high-temperature superconductivity—advanced activities

Short description: The workshop will be held in the ICTM High Temperature Superconductivity Laboratory. Participants will take part in research experiments concerning the structural, optical and normal state and superconducting properties of superconducting samples. Experimental activity will aim at achieving original results which may be published in specialized journals. Duration: 8 weeks. Invited countries: Global. Qualifications: Post-graduate students with working experience in experimental techniques for the characterization of HTS materials.

Host institution: International Centre for Science and High Technology
United Nations Industrial Development Organization
and
International Centre for Theoretical Physics
International Atomic Energy Agency

Venue: Adriatico Guest House
Grignano
Trieste, Italy

Non-wood fibre pulping and papermaking

Short description: Lectures on and discussion of a new process for non-wood fibre pulping and papermaking, with emphasis on oxygen pulping and bleaching, organosolv process. Bropulping, small-scale effluent treatment and paper coating. Duration: 1 week. Invited countries: Interregional programme. Qualifications: Degree in chemical engineering, chemistry or equivalent and experience in pulping and papermaking from non-wood fibrous raw materials. English.

Host institution: Paper Industrial Research Institute of the
Ministry of Light Industry
Beijing, China

MAY/MAI/MAYO

Modern optical storage technology

Short description: Methodology and practical training in the use of CD ROM and WORM, micro-CDs/ISIS software and INTIB databases. CD ROM and WORM technology, structure of databases on CD ROM and WORM, retrieval software applications. Duration: 1 week. Invited countries: Interregional programme for INTIB national focal
points and nodes. Qualifications: University degree in information/informatics and/or 5 years of experience in information processing.

Host institution: Institute of Scientific, Technical and Economic Information
Warsaw, Poland

Training of trainers in development finance institutions

Short description: Various phases of a project cycle: the entire process of training, e.g. systematic assessment of training needs, curriculum design and development, delivery of training courses, training methods and techniques. Duration: 5 weeks. Invited countries: Regional programme for Africa. Qualifications: University degree; middle and senior level trainers in development finance institutions; at least 1-2 years of experience as trainers. English.

Host institution: Centre for Financial Assistance to African Countries (FINAFRICA)
Milan, Italy

JUNE/JUIN/JUNIO

Industrial project preparation, appraisal and financing

Short description: Presentation and discussions of all aspects of investment project preparation and appraisal, such as investment project development cycle, market analysis, technical aspects of investment, financial analysis (investment profitability), economic appraisal, investment implementation, financing of investment projects, introduction to computer software for feasibility analysis (COMFAR); extensive case studies and short practical exercises. Duration: 4 weeks. Invited countries: Interregional programme. Qualifications: University degree in economics, business administration or engineering and at least 4 years of professional experience in the investment field. English.

Host institution: Warsaw School of Economics
(former Central School of Planning and Statistics)
Warsaw, Poland

Management of human resources development for industry

Short description: Upgrade the knowledge and widen the experience of professionals responsible for the planning and coordination of training activities in industry in developing countries. Studies of the main topics, such as human resources planning and methodology, are complemented by study visits to educational institutions of all levels, round-table discussions and practice orientation. Duration: 5 weeks. Invited countries: Interregional programme. Qualifications: Degree in technology or economics or equivalent; at least 3 years of experience in industrial training; candidates must be responsible for the planning and coordination of training activities at regional or sectoral industrial level or advise the policy making organ dealing with industrial training. English.

Host institution: Ministry of Middle and Higher Education
Institute for the Advanced Training of Managers and Specialists
Moscow, Union of Soviet Socialist Republics
Study tour in the cement industry


Host institution: Cement Research and Development Centre
Ankara, Turkey

JULY/JUILLET/JULIO

New developments in high-yield pulping, secondary fibre and alkaline papermaking

Short description: Lectures and discussions between participating countries about new developments in high-yield pulping, secondary fibre utilization and alkaline papermaking. Duration: 5 days. Invited countries: China, India, Indonesia, Myanmar, Thailand. Qualifications: Degree in chemical engineering, chemistry or equivalent and experience in pulping and papermaking. English.

Host institution: Forest Products Research and Development Institute
Department of Science and Technology
Laguna, Philippines

AUGUST/AOÛT/AGOSTO

Fruit and vegetable processing

Short description: Various subjects of fruit and vegetable technology, fruit and vegetable processing operations: mechanical processes, pasteurization, sterilization, canning, drying, cooling, freezing, packaging, quality control, biochemistry and microbiology of fruits and vegetables, marketing and economics. Duration: 6 weeks. Invited countries: Interregional programme. Qualifications: University or equivalent academic background in food technology, nutrition, chemical or agricultural engineering; 1-5 years of experience. English.

Host institution: Marmara Scientific Industrial Research Institute
Gebze-Kocaeli, Turkey

Technology and equipment in electric welding

Short description: Basic theory of welding, process and equipment of fusion welding, manual arc welding, gas shielded welding, submerged arc welding, electroslag welding, gas, plasma welding and cutting, electron-beam welding, brazing and soldering, surfacing; processes and equipment of pressure welding; technology for welding of various structural materials; principles of fabrication of welded structures; organizational and economical aspects of welding production and training of welding specialists. Training in plants manufacturing electric welding equipment, in the metalworking industry as well as in laboratories. Duration: 14 weeks. Invited countries: Interregional programme. Qualifications: Degree in electrical or mechanical engineering or equivalent; at least 5 years of experience related to electric welding. English.
Entretien du matériel ferroviaire


Organismes hôtes : Société nationale des chemins de fer belges (SNCB)
Bruxelles, Belgique
Union africaine des chemins de fer (UAC)
Afrique

Lieux :
Belgique
Cameroun

Industrial planning and development

Short description : Macro-planning and strategy-oriented course; long-term development issues of industrialization, industrial strategies and planning, industrial incentives and promotional policies, technology transfer and labour employment, financing industrial development, project preparation, project appraisal; field trip and workshop. Duration: 4 weeks. Invited countries: Regional programme for Asia. Qualifications: University degree or equivalent; at least 3 years of experience in industrial development; industrial development economists in government organizations and public institutions for industrial development and implementation; between 30 and 45 years of age. English.

Host institution: International Development Centre
Tokyo, Japan

Iron and steel industry

Short description : Theoretical and practical training and study visits with emphasis on: individual practical training in basic oxygen furnaces and slab casting; hot and cold rolling mills operation, including finishing; blast furnace operations; hot rolling mill process control; quality control; industrial safety; electrical and mechanical maintenance. Duration: 12 weeks. Invited countries: Interregional programme. Qualifications: Degree in metallurgy, chemistry, mechanical or electrical engineering; 1-5 years of experience in iron and steel industry; between 25 and 35 years of age. English.

Host institution: Eregli Iron and Steel Works
Eregli, Turkey
Methods and technologies in the printing Industry

Short description: Production of newspapers, periodicals, books (including textbooks and other printed material); planning and design of printing houses; tasks and problems in the training of specialists for the graphic arts industry; standardization and quality control in the graphic arts industry; study visits, practical training in plants manufacturing printing machinery and in printing houses. Duration: September-October. Invited countries: Interregional programme. Qualifications: Degree in the field of printing industry or equivalent; managerial or high-level technical personnel in the printing industry or senior officials of a public or private printing organization; at least 2 years of experience. English.

Host institution: Polygraph Contacta GmbH Leipzig, Germany

Modern Information technology applications and networks

Short description: Technical aspects, principles and advances in hardware and software applications related to teleinformatics, electronic mail and teleconferencing systems and computer networks; practical training in establishing on- and off-line linkages with UNIDO and commercial or public databases and networks. Duration: 10 days. Invited countries: Interregional programme for INTIB national focal points. Qualifications: University degree in informatics or extensive experience in personal computer applications in information processing/communication. English.

Host institution: Institute for Automated Systems Moscow, Union of Soviet Socialist Republics

Small-scale foundry operations for least developed countries

Short description: Theoretical and practical training in small-scale foundry technology; study visits to foundries near Istanbul, Ankara and Bursa. Duration: 7 weeks. Invited countries: Least developed and other selected countries. Qualifications: Degree in foundry or metallurgy or equivalent; senior policy and decision makers in small-scale foundry industry. English.

Host institution: Marmara Scientific and Industrial Research Institute Gebze-Kocaeli, Turkey

Utilization of medicinal and aromatic plants in pharmaceutical industry

Short description: Upgrading of knowledge and skills in industrial processing of medicinal herbs. Duration: 3 weeks. Invited countries: Interregional programme. Qualifications: Degree in pharmacy, chemistry or chemical engineering; at least 2 years of experience in the field of medicinal and aromatic plants. English.

Host institution: Medicinal Plant Research Centre Eskishir, Turkey

OCTOBER/OCTOBRE/OCTUBRE

Sugar (sugar-beet) production

Short description: The programme will be carried out both in sugar plants and in a sugar research institute and consists of theoretical and specialized practical in plant training
as well as study visits. It will deal with both economic and technical aspects, including feasibility studies, raw material surveys, maintenance, production technologies and quality control. **Duration:** October-November. **Invited countries:** Interregional programme. **Qualifications:** Degree in chemical, agricultural, mechanical or electrical engineering; at least 2 years of experience; presently employed in the production of sugar. English.

**Host institution:** Sugar Research Institute
Ankara, Turkey

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**NOVEMBER/NOVEMBER/NOVEMBER**

**High-yield hardwood and non-wood pulping**

**Short description:** Lectures and discussion between participating countries on high-yield pulping of hardwoods and non-wood fibrous raw materials and high-grade non-wood and secondary fibres papermaking. **Duration:** 5 days. **Invited countries:** China, India, Indonesia, Philippines, Thailand. **Qualifications:** Degree in chemical engineering, chemistry or equivalent and experience in pulping and papermaking. English.

**Host institution:** Central Research Organization
Ministry of Education
Rangoon, Myanmar

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**Integrated circuits design**

**Short description:** Training course in integrated circuits design. **Duration:** 4 weeks. **Invited countries:** Arab countries. **Qualifications:** University degree and specialization in integrated circuit design. English.

**Host institution:** International Centre for Theoretical Physics
Trieste, Italy

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**Workshop on novel techniques in non-destructive testing**

**Short description:** Basic theory, technical realization and application of three novel methods of remote monitoring of structural integrity and stability of different engineering complexes such as pipelines, high-pressure vessels, airplanes, bridges, towers, buildings and off-shore platforms. The areas of application of these three methods, namely laser measurements (interferometry, holography, speckle), infrared thermography and acoustic emission are vastly increasing and these methods can provide outstanding opportunities for overall surveillance (condition monitoring) which can be further verified by local check-ups using traditional methods (eddy currents, ultrasonic). Hands-on practical training and final discussion of concrete follow up projects. **Duration:** 10-12 days. **Invited countries:** Regional programme for South East Asia. **Qualifications:** Technical university or equivalent; practical experience or R&D achievements; involvement in front-line technical activities in home country desirable in order to implement the acquired knowledge. English.

**Host institution:** SIRA
Harwell Research Laboratories
United Kingdom
Advanced training in frontier areas of organic synthesis

Short description: Advanced topics in chiral synthesis of organic molecules, biomimetic approach and enzyme model systems; novel synthons; reactive photochemical and other intermediates in the organic synthesis; target-oriented total synthesis of biologically active compounds and other topics. The course also includes a laboratory component for selected trainees. Duration: 2 weeks. Invited countries: Global. Qualifications: PhD students in organic synthesis or related field. English.

Host institution: International Centre for Science and High Technology
United Nations Industrial Development Organization
Jawaharlal Nehru Centre for Advanced Scientific Research
Bangalore, India
and
Indian Institute of Science
Bangalore, India

Venue: Department of Organic Chemistry
Indian Institute of Science
Bangalore 560 012, India

Basic petrochemicals and production technologies

Short description: Theoretical and practical training and study visits with emphasis on production management and production processes for pyrolysis feedstock for ethylene production, downstream petrochemical products, polyolefins, aromatic hydrocarbons etc.; product quality, plant safety, maintenance, environmental control and energy management. Duration: 6 weeks. Invited countries: Interregional programme. Qualifications: Degree in chemical, petrochemical or related engineering; 1-5 years of experience in the petrochemical industry; between 25 and 35 years of age. English.

Host institution: Training Centre of the Ministry of Petrochemical Industry
Bucharest, Romania

Fault tolerance software

Short description: Upgrading the knowledge of industrial specialists in distributed real-time systems and fault tolerance. Duration: 2 weeks. Invited countries: Regional programme for Latin America and the Caribbean. Qualifications: University degree and extensive experience in industrial software. English.

Host institution: Technical University of Vienna
Vienna, Austria

Formation à la fonction maintenance

Organisme hôte : Ecole Mohammedia d'ingénieurs
Rabat, Agdal, Maroc

Formation des formateurs dans les institutons de financement dans le secteur des petites et moyennes entreprises


Organisme hôte : Union douanière et économique de l'Afrique centrale
Baméui, République centrafricaine

Railway track

Brève description : Design and maintenance of railway track to improve maintenance systems and practices of railway tracks. Duration : —. Invited countries: Regional programme for Africa. Qualifications: Middle/senior engineers; degree in civil engineering and 3 years of experience in a railway environment, or 7 years of experience as a high level technician. English.

Host institutions: British Rail Training Centre
Watford, United Kingdom

and

Railways Training Institute, Malawi

Venues: United Kingdom
Malawi

Utilisation des micro-ordinateurs dans la gestion et le management des petites et moyennes entreprises


Organisme hôte : Agence pour la coopération technique, industrielle et économique (ACTIM)
Paris, France
Chapter II. Training opportunities offered by institutions other than UNIDO

Chapitre II. Possibilités de formation offertes par des institutions autres que l’ONUDI

Capítulo II. Oportunidades de capacitación ofrecidas por instituciones distintas de la ONUDI

A. DEVELOPED COUNTRIES AND AREAS/PAYS ET ZONES DÉVELOPPÉS/PAYSES Y ZONAS DESARROLLADOS

I. INDUSTRIAL BRANCHES/SECTEURS INDUSTRIELS/RAMAS INDUSTRIALES

Building materials industries/Industrie des matériaux de construction/Industrias de los materiales de construcción

Formation en construction


Organisateur: Centre d’études et de recherches de l’Institut supérieur industriel catholique du Hainaut (CERASICASBL)
22, avenue de l’Hôpital
7000 Mons, Belgique

Industrie de la construction


Organisateur: Centre scientifique et technique de la construction
41, rue du Lombard
1000 Bruxelles, Belgique
Habitat économique et matériaux locaux


Organisateur : CRATerre — EAG
BP 26 36
38036 Grenoble Cedex 2, France

Lieu : Ecole d'architecture de Grenoble
10, galerie des Baladins
38100 Grenoble, France

Construction materials technology and testing


Organizer: Laing Technology Group Ltd.
P.O. Box 23
Page Street
London NW7 2ER, United Kingdom

Intermediate technology for the production and use of building materials

Short description: Manufacture of building elements; construction; maintenance of production equipment. Commencing date: To be arranged. Duration: 2-6 weeks. Qualifications: Previous experience in building construction or building materials fabrication. English. Deadline for application: -. Fees: £500 per week.

Organizer: J. P. M. Parry & Associates Ltd.
Intermediate Technology Workshops Ltd.
Overend Road
Cradley Heath, West Midlands B64 7DD, United Kingdom

Chemical industries/Industrie chimique/Industrias químicas

Chimie — biochimie


Organisateur : Centre d'études et de recherches de l'Institut supérieur industriel catholique du Hainaut (CERIS/CASEL)
22, avenue de l'Hôpital
7000 Mons, Belgique
Chemical analysis of mineral samples

Short description: Chemical analysis of ores and mineral samples: titrimetry, electrolysis, polarography, spectrophotometry, atomic absorption, fluorimetry, plasma emission spectrometry. Commencing date: To be arranged. Duration: To be arranged. Qualifications: Degree in chemistry. English, French, Spanish. Deadline for application: —. Fees: BF 60,000-80,000 per month.

Organizer: Université catholique de Louvain
Laboratoire de traitement des minéraux
2, place Ste Thérèse
1348 Louvain-la-Neuve, Belgium

Corrosion et lutte contre la corrosion


Organisateur: Centre belge d’étude de la corrosion (CEBELCOR)
2, avenue Paul Héger-Grille
1050 Bruxelles, Belgique

Environmental control in the chemical and pharmaceutical industries


Organizer: University of Ghent
Department of Environmental Sanitation
Plateaustraat
9000 Ghent, Belgium

Pharmaceutical technology

Short description: Preparation of ampoules, perfusion, solutions and ointments; study of granulation, manufacturing of capsules, tabletting; control of the production of drugs; planning for production of antibiotics, sulphonamides, antiseptics; organization and starting up of semi-industrial pharmaceutical plants; visits to pharmaceutical plants. Commencing date: To be arranged. Duration: Approximately 3 months. Qualifications: Pharmacist, chemist or chemical engineer. English. Deadline for application: —. Fees: Approximately BF 40,000 per month.

Organizer: University of Ghent
Faculty of Pharmaceutical Science
Sint Pietersnieuwstraat
9000 Ghent, Belgium

Sciences et techniques verrières

Brève description: Formation scientifique et technique dans le domaine du verre; enseignement dans les sciences existantes et dans les disciplines ou techniques nouvelles.
Pulp and paper technology

Short description: Combination of lectures and self-study course on different aspects of pulp and paper technology. Commencing date: To be arranged. Duration: 1-6 months. Qualifications: Degree in engineering or equivalent experience. English. Deadline for application: —. Fees: SUS 425 per day.

Organizer: OMNI Continental
P.O. Box 91098
West Vancouver
British Columbia V7V 3N3, Canada

Chemical analysis of metals and plastics


Organizer: Deutsche Technische Akademie GmbH
P.O. Box 1670
Bötcherstrasse 2
3330 Helmstedt, Germany

Energy saving in injection moulding of plastics

Short description: Energy usage in plastics processing; efficient use; machine/mould combination; materials; the process; energy measurements; costs; management. Commencing date: To be arranged. Duration: —. Qualifications: Professional qualifications. English. Deadline for application: —. Fees: To be arranged.

Organizer: TNO Plastics and Rubber Research Institute
P.O. Box 6031
2600 JA Delft, Netherlands

Epoxy resins

Short description: Synthesis of liquid and solid epoxy resins; analysis of epoxy resins; modifiers, diluents, hardeners, curing accelerators and flexibilizers; compositions and applications. Commencing date: To be arranged. Duration: 3 or 6 months. Qualifications: Professional qualifications. English, German, Russian. Deadline for application: —. Fees: To be arranged.

Organizer: Industrial Chemistry Research Institute
ul. Rydygiera 8
01-793 Warsaw, Poland

Integrated development programming for the refining, petrochemical and chemical industries

Short description: Course using a specially developed computer system called MIDA (multiobjective interactive decision aid). Commencing date: July. Duration: —.

**Organizer:** Joint Systems Research Department of the Academy of Mining and Metallurgy and the Industrial Chemistry Research Institute
Al. Mickiewicza 30
30-059 Krakow, Poland

**Unsaturated polyester resins**

*Short description:* Synthesis of general-purpose, flexible, chemically resistant, fire-retardant and varnish-type UP resins; analysis and quality evaluation; curing, hardeners, curing accelerators; compositions, processing, applications. *Commencing date:* To be arranged. *Duration:* 3 or 6 months. *Qualifications:* English, German, Russian. *Deadline for application:* To be arranged. *Fees:* To be arranged.

**Organizer:** Industrial Chemistry Research Institute
ul. Rydygierya 8
01-793 Warsaw, Poland

**Ceramics technology**

*Short description:* Principles, processes and characterization of ceramic materials; use and importance of glassy materials in ceramic technology; glass ceramics; glazes and fired bodies. *Commencing date:* To be arranged. *Duration:* 12-36 weeks. *Qualifications:* Experience and supportive qualifications in the chosen disciplines. English. *Deadline for application:* 3 months before commencing date. *Fees:* £300 per week.

**Organizer:** Providence Group Services
Grainger House, Cradley Road, Five Ways
Cradley Heath
Warley, West Midlands B64 6AG, United Kingdom

**Fertilizer technology**

*Short description:* Production; planning and plant management; process control; ammonia synthesis; nitric acid and ammonium nitrate technology; instrumentation technology; pollution control; water preparation; health and safety; maintenance. *Commencing date:* To be arranged. *Duration:* 12 weeks. *Qualifications:* English. *Deadline for application:* 1 month before commencing date. *Fees:* To be arranged.

**Organizer:** Chattaway (UK) Training Services
Pool Chambers
26 Dam Street
Lichfield, Staffordshire WS13 6AA, United Kingdom

**Maintenance of chemical plants**

*Short description:* Maintenance organization required to effectively operate large-scale chemical plants; planning for routine maintenance and major overhauls; use of computerized systems for work scheduling and planning; techniques the host organization employs in maintaining its own chemical plants. *Commencing date:* June. *Duration:* 3 weeks. *Qualifications:* Graduate engineers or experienced managers in mechanical/engineering function. English. *Deadline for application:* 3 weeks before commencing date. *Fees:* To be arranged.
Organizer: Training Manager
ICI Chemicals and Polymers Ltd.
Process Plant Services
P.O. Box 1
Billingham, Cleveland TS23 1LB, United Kingdom

Water analysis and quality


Organizer: Water, Engineering and Development Centre (WEDC)
Loughborough University of Technology
Loughborough, Leicestershire LE11 3TU, United Kingdom

Water treatment

Short description: Water treatment technology for processing, chemical fertilizer industries etc. Commencing date: To be arranged. Duration: 12 weeks. Qualifications: English. Deadline for application: 1 month before commencing date. Fees: To be arranged.

Organizer: Chattaway (UK) Training Services
Pool Chambers
26 Dam Street
Lichfield, Staffordshire WS13 6AA, United Kingdom

Electrical and electronic industries/Industries électriques et électroniques/Industrias eléctricas y electrónicas

Microelectronics—VLSI circuits and system design

Short description: NMOS and CMOS integrated circuit design; IC system design; CAD tools for IC design (VLSI design tools are available, namely VTI software is being used extensively); testing IC’s; design of an IC and fabrication by in-house Si foundry or outside. Commencing date: —. Duration: 12-18 months. Qualifications: English (some knowledge of French recommended). Deadline for application: —. Fees: BF 200,000 (plus BF 500,000 for IC fabrication if applicable).

Organizer: Laboratoire de microélectronique
Université Catholique de Louvain
Bâtiment Maxwell
3, place du Levant
1348 Louvain-la-Neuve, Belgium

Telecommunications—cellular radio networks

Short description: Planning and features of the automatic mobile telephone network. Commencing date: October. Duration: 4 weeks. Qualifications: English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: TELECON Ltd.
Aleksanterinkatu 15 B
00100 Helsinki, Finland
Telecommunications—digital switching


Organizer: TELECON Ltd.
Aleksanterinkatu 15 B
00100 Helsinki, Finland

Telecommunications—digital transmission


Organizer: TELECON Ltd.
Aleksanterinkatu 15 B
00100 Helsinki, Finland

Telecommunications—external line plant

Short description: All relevant issues, from planning to documentation of external line plant. Commencing date: March. Duration: 4 weeks. Qualifications: English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: TELECON Ltd.
Aleksanterinkatu 15 B
00100 Helsinki, Finland

Telecommunications—financial planning and management

Short description: Telecommunications financial planning and management. Commencing date: March. Duration: 5 weeks. Qualifications: English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: TELECON Ltd.
Aleksanterinkatu 15 B
00100 Helsinki, Finland

Telecommunications—management of computerization of a telecom organization

Short description: Overview of the computerization process. Commencing date: March. Duration: 4 weeks. Qualifications: English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: TELECON Ltd.
Aleksanterinkatu 15 B
00100 Helsinki, Finland

Telecommunications—management of network modernization


Organizer: TELECON Ltd.
Aleksanterinkatu 15 B
00100 Helsinki, Finland
Telecommunications—optical fibre systems


Organizer: TELECON Ltd.
Aleksanterinkatu 15 B
00100 Helsinki, Finland

Telecommunications—radio transmission and mobile systems


Organizer: TELECON Ltd.
Aleksanterinkatu 15 B
00100 Helsinki, Finland

Telecommunications—telecommunications business management

Short description: Business management problems in transition from government, department to modern market-oriented telecommunications enterprise. Commencing date: November. Duration: 3 weeks. Qualifications: English. Deadline for application: 3 months before commencing date. Fees: To be arranged.

Organizer: TELECON Ltd.
Aleksanterinkatu 15 B
00100 Helsinki, Finland

Telecommunications—traffic measurements

Short description: Options and techniques for effective traffic analysis, measurement and dimensioning. Commencing date: August. Duration: 4 weeks. Qualifications: English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: TELECON Ltd.
Aleksanterinkatu 15 B
00100 Helsinki, Finland

Telecommunications—trunked mobile radio networks


Organizer: TELECON Ltd.
Aleksanterinkatu 15 B
00100 Helsinki, Finland

Basic circuits of electronic equipment

Short description: Circuits of rectifiers, amplifier with transistors, circuits with operational amplifier, constant current and voltage sources, electronic switches in information processing, logic circuits, signal memory and former counter and code transformer,
signal generators, electric power switches. **Commencing date:** To be arranged. **Duration:** 4 weeks. **Qualifications:** German, English. **Deadline for application:** 2 months before commencing date. **Fees:** DM 5,000.

**Organizer:** Deutsche Technische Akademie GmbH  
P.O. Box 1670  
Bötticherstrasse 2  
3330 Helmstedt, Germany

**Components of electronics**

**Short description:** Oscilloscopes—passive 2 and 4 poles, semiconductor diodes, bipole transistors, field effect transistors, photo semiconductors, semiconductors with special properties, thyristors. **Commencing date:** To be arranged. **Duration:** 4 weeks. **Qualifications:** German, English. **Deadline for application:** 2 months before commencing date. **Fees:** DM 5,000.

**Organizer:** Deutsche Technische Akademie GmbH  
P.O. Box 1670  
Bötticherstrasse 2  
3330 Helmstedt, Germany

**Electrical measuring techniques**

**Short description:** Basics of AC and DC technique, measuring of electric basic magnitudes, electromechanic and electronic measuring equipment, measuring ranges and uncertainty, direct and indirect measuring procedures, legal metrology. **Commencing date:** To be arranged. **Duration:** 4 weeks. **Qualifications:** German, English. **Deadline for application:** 2 months before commencing date. **Fees:** DM 4,600.

**Organizer:** Deutsche Technische Akademie GmbH  
P.O. Box 1670  
Bötticherstrasse 2  
3330 Helmstedt, Germany

**Electrotechnical basics of electronics**

**Short description:** Fundamental mathematics, DC, AC, danger of electric plants, electrical measuring techniques. **Commencing date:** To be arranged. **Duration:** 4 weeks. **Qualifications:** German, English. **Deadline for application:** 2 months before commencing date. **Fees:** DM 5,000.

**Organizer:** Deutsche Technische Akademie GmbH  
P.O. Box 1670  
Bötticherstrasse 2  
3330 Helmstedt, Germany

**New telecommunications techniques**

**Short description:** Digital microwave links, mobile communications, space communications, optical communications, data transmission and data networks, video communications, integrated services digital networks, digital switching, network engineering and planning, telematics. **Commencing date:** May. **Duration:** 8 weeks. **Qualifications:** Engineers with professional experience, English. **Deadline for application:** April. **Fees:** F 27 000

**Organizer:** CESELEC  
39/43 rue Anatole France  
94300 Vincennes, France
Ship's electrician

Short description: For young electricians who already work or are starting their careers in the maritime sector. Commencing date: May. Duration: 9 months (including basic study of the Italian language). Qualifications: Technical diploma. Deadline for application: March. Fees: To be arranged.

Organizer: Istituto Culturale Italiano (ICI)
P.O. Box 91
S. Benedetto Tr. (AP), Italy

Ship's radiotelegraph operator

Short description: For technicians who wish to work as radiotelegraph operators and radiotelephonists in the maritime sector. Commencing date: May. Duration: 9 months (including basic study of the Italian language). Qualifications: Technical diploma. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: Istituto Culturale Italiano (ICI)
P.O. Box 91
S. Benedetto Tr. (AP), Italy

Video equipment maintenance techniques

Short description: Technical training utilizing institutional/professional audiovisual equipment. Commencing date: March, May, August, October. Duration: 5 weeks. Qualifications: English. Deadline for application: Two months before commencing date. Fees: ¥27,500 per day.

Organizer: International Training, ICD
Sony Corporation
6-7-35 Kitashinagawa, Shinagawa-ku
Tokyo 141, Japan

General telecommunication

Short description: Analogue electronics (selected subjects, workshop); number systems; binary logic circuits; basic computer techniques; microprocessor architecture. Fundamentals of software: algorithms; data structures; programming examples; operating systems. Switching: network structures, plans and implementation; analogue and digital switching. Transmission: methods; basic parameters; media; line communication; multiplexing. Data communication: basics; modems; interfaces; protocols. Modern telecommunication: ISDN. Commencing date: February. Duration: 15 weeks. Qualifications: Knowledge of electronics and telecommunication networks. English. Deadline for application: 3 months before commencing date. Fees: To be arranged.

Organizer: Netherlands International Telecommunication Training Cooperation (NITTC)
Koningin Julianaplein 2
P.O. Box 30000
2500 GA Den Haag, Netherlands

Venue: AT&T Network Systems Nederland Documentation and Training Centre
Larenseweg 50
P.O. Box 1168
1200 BD Hilversum, Netherlands
General transmission

Short description: Time division multiplex systems for speech and data; digital line transmission via metallic lines and optical fibres; digital branching systems; protective switching systems. Commencing date: January. Duration: 17 weeks. Qualifications: Knowledge of digital techniques, electronics and modern telecommunication networks. English. Deadline for application: 3 months before commencing date. Fees: To be arranged.

Organizer: Netherlands International Telecommunication Training Cooperation (NITTC)
Koningin Julianaplein 2
P.O. Box 30000
2500 GA Den Haag, Netherlands

Venue: AT&T Network Systems Nederland
Documentation and Training Centre
Larenseweg 50
P.O. Box 1168
1200 BD Hilversum, Netherlands

Electronic engineering

Short description: Individual programmes: laboratory workshops and industrial projects supported by theoretical course modules according to personal background and career perspectives. Commencing date: January. Duration: 50 weeks. Qualifications: Degree in electronic engineering or equivalent. English. Deadline for application: 4 months before commencing date. Fees: f. 18,000.

Organizer: Eindhoven University of Technology
Eindhoven International Institute (EII)
P.O. Box 513
5600 MB Eindhoven, Netherlands

Public switching

Short description: Principles and organization of digital switching systems; daily operations on the system database; procedural maintenance of switching network and administrative processor; hardware of a digital switching system; system database: organization and management; advanced maintenance beyond formal procedures; system performance observations. Commencing date: September. Duration: 16 weeks. Qualifications: Knowledge of digital and computer techniques and of modern telecommunication. English. Deadline for application: June. Fees: To be arranged.

Organizer: Netherlands International Telecommunication Training Cooperation (NITTC)
Koningin Julianaplein 2
P.O. Box 30000
2500 GA Den Haag, Netherlands

Venue: AT&T Network Systems Nederland
Documentation and Training Centre
Larenseweg 50
P.O. Box 1168
1200 BD Hilversum, Netherlands

Telecommunication engineering

Short description: Individual programmes: laboratory workshops and industrial projects supported by theoretical course modules according to personal background and career perspectives.
Telecommunication engineering

Short description: Introduction to telecommunication systems; numerical analysis; signal theory; Pascal and C programming; modulation and coding; (non) linear programming; queuing and switching systems; operation of telecommunication systems; report writing. Industrial project. Protocols, networks and routing; operating systems; transmission; radio systems; satellite communication; computer software package. Commencing date: January. Duration: 50 weeks. Qualifications: Degree in electrical engineering. English. Deadline for application: 4 months before commencing date. Fees: f. 18,000.

Organizer: Eindhoven University of Technology
Eindhoven International Institute (EII)
P.O. Box 513
5600 MB Eindhoven, Netherlands

Bodies for electrical engineering


Organizer: Instytut Elektrotechniki
Oddzial Technologii i Materialoznawstwa Elektrotechnicznego
ul. M. Sklodowskiej-Curie 55/61
50-950 Wroclaw, Poland

Electrical insulating varnishes and enamels for electrical engineering

Short description: Enamelled winding wires, impregnated insulating sleeving, electrical insulating systems; application technique for electrical insulating varnishes and enamels; testing and evaluation of products. Commencing date: May. Duration: 3 months. Qualifications: Electrical engineers. English. Deadline for application: January. Fees: To be arranged.

Organizer: Instytut Elektrotechniki
Oddzial Technologii i Materialoznawstwa Elektrotechnicznego
ul. M. Sklodowskiej-Curie 55/61
50-950 Wroclaw, Poland

Electrical machines and computer-controlled electrical drives

Environmental and corrosion protection of electrical equipment

Short description: Environment effect on electrical equipment life and performance; materials choice, design evaluation and electrical equipment protection; testing of materials and products under environmental conditions and in accelerated tests. Commencing date: May. Duration: 3 months. Qualifications: Electrical engineers. English. Deadline for application: January. Fees: To be arranged.

Organizer: Instytut Elektrotechniki
Oddzial Technologii i Materialoznawstwa Elektrotechnicznego
ul. M. Sklodowskiej-Curie 55/61
50-950 Wroclaw, Poland

High-voltage insulating technique


Organizer: Instytut Elektrotechniki
Oddzial Technologii i Materialoznawstwa Elektrotechnicznego
ul. M. Sklodowskiej-Curie 55/61
50-950 Wroclaw, Poland

Materials for electrical engineering

Short description: Insulating materials in low- and high-voltage techniques, bodies; soft magnetic materials; sintered contact materials; choice; preparation; application; testing; evaluation; standardization; environmental and corrosion protection. Commencing date: March. Duration: 3 months. Qualifications: Electrical engineers. English. Deadline for application: December 1991. Fees: To be arranged.

Organizer: Instytut Elektrotechniki
Oddzial Technologii i Materialoznawstwa Elektrotechnicznego
ul. M. Sklodowskiej-Curie 55/61
50-950 Wroclaw, Poland

Microprocessor-based controllers for aviation applications

Short description: Microprocessor systems; design methods and aided design instruments; typical applications based on Aviation Institute’s projects. Commencing date: To be arranged. Duration: 6 months. Qualifications: University degree in electronics. English. Deadline for application: 3 months before commencing date. Fees: To be arranged.

Organizer: Aviation Institute
Al. Krakowska 110/114
02-226 Warsaw, Poland
Numerical methods in the design of electrical machines and devices


Organizer: Instytut Elektrotechniki
Zakład Badań Podstawowych Elektrotechniki
ul. Pozaryskiego 28
04-703 Warsaw, Poland

Power system protection

Short description: Research, design, application and testing in the Polish power system. Practical training and technical courses. Commencing date: To be arranged. Duration: Practical training: 1-3 months; technical courses: 2 weeks. Qualifications: Degree in engineering. English. Deadline for application: To be arranged. Fees: To be arranged.

Organizer: Institute of Power Technology
ul. Mory 8
01-330 Warsaw, Poland

Short-circuit and high-voltage tests of electrical apparatuses and switchboards

Short description: Testing technology; series of tests in short-circuit testing station and in high-voltage laboratory. Commencing date: June, July. Duration: 4 weeks. Qualifications: English. Deadline for application: 5 months before commencing date. Fees: To be arranged.

Organizer: Apparatus Institute
Technical University of Gdańsk
Gdańsk, Poland

Soft magnetic materials and sintered contact materials for electrical engineering


Organizer: Instytut Elektrotechniki
Oddział Technologii i Materialoznawstwa Elektrotechnicznego
ul. M. Skłodowskiej-Curie 55/61
50-950 Wrocław, Poland

Switching performance testing

Short description: Testing methods; test and measuring circuits and instruments; digital techniques in high-power laboratory. Commencing date: March, June, September. Duration: 8 weeks. Qualifications: Electrical engineers. English, French, German, Russian. Deadline for application: 3 months before commencing date. Fees: To be arranged.

Organizer: Institute of Power Technology
ul. Mory 8
01 330 Warsaw, Poland
Testing and attestation of electrical apparatuses


Organizer: Instytut Elektrotechniki
ul. Pozaryskiego 28
04-703 Warsaw, Poland

Testing of electrical machinery

Short description: Full prototype testing of machines up to 400 kW, especially induction motors; noise/vibration testing, thermal testing, torque curve; application of micro-computers in testing. Commencing date: To be arranged. Duration: 3 months. Qualifications: English, Russian. Deadline for application: —. Fees: To be arranged.

Organizer: Instytut Elektrotechniki
Zaklad Maszyn Elektrycznych
ul. Pozaryskiego 28
04-703 Warsaw, Poland

Electrical power engineering


Organizer: John Brown Engineering Training
Clydebank
Dumbartonshire G81 1YA, Scotland, United Kingdom

Electronics and computers

Short description: Basic electrical and electronic theory, with a considerable amount of practical work, leading to a detailed coverage of modern electronic circuits used in control and computing equipment. Commencing date: April, September. Duration: 16-42 weeks. Qualifications: English. Deadline for application: 6 weeks before commencing date. Fees: £220 per week.

Organizer: Providence Group Services
Grainger House, Cradley Road, Five Ways
Cradley Heath
Warley, West Midlands B64 6AG, United Kingdom

Gas turbine technology


Organizer: John Brown Engineering Training
Clydebank
Dumbartonshire G81 1YA, Scotland, United Kingdom
Microelectronics and microprocessing systems engineering


Organizer: John Brown Engineering Training
Clydebank
Dunbartonshire G81 1YA, Scotland, United Kingdom

Food-processing industries/Industrie alimentaire/Industrias alimentarias

Industrie sucrière de la betterave et technologie de la fabrication du sucre
à partir de la betterave sucrière


Organisateur : Société sucrière d’études et de conseils S.A.
Aandorenstraat 1
3300 Tienen, Tidemont, Belgique

Marine fishery

Short description: Modern fishing techniques and equipment; planning and management of marine resources; fish industry technologies and quality control; fish marketing organization; production and processing systems; pollution control and energy conservation; transport, distribution and export; research establishments. Commencing date: March, September. Duration: 3 months. Qualifications: Professional qualifications. English, French. Deadline for application —. Fees: To be arranged.

Organizer: International Training and Contact (ITC)
Velodroomstraat 68
2600 Antwerp, Belgium

Meat processing

Short description: Food technology, European slaughterhouses, processing plants, departments, factories and workshops; new techniques of reception, control, freezing, thawing, cutting and deboning, preparing, transformation, handling, packing, storage, transport, distribution and marketing; fresh pre-packed meat, hamburgers, meat balls, sausages, control tests, economics, management, equipment, quality assurances, suppliers, rules, future trends. Commencing date: Throughout the year. Duration: 4-10 weeks. Qualifications: Professional qualifications. English, French. Deadline for application —. Fees: To be arranged.

Organizer: International Training and Contact (ITC)
Velodroomstraat 68
2600 Antwerp, Belgium
Technologie agro-alimentaire


Organisateur: HUYTROP Asbl
c/o Institut supérieur industriel de la Communauté française
3, rue Saint-Victor
4500 Huy, Belgique

Quality management for fish-processing plants


Organizer: The North Sea Centre
P.O. Box 104
9850 Hirtshals, Denmark

Quality control in food processing


Organizer: Hungarian Office for Standardization (MSZH)
P.O. Box 24
1450 Budapest 9, Hungary

Refrigeration


Organizer: Istituto Culturale Italiano (ICI)
P.O. Box 91
S. Benedetto Tr. (AP), Italy

Dairy husbandry and milk processing

Short description: Dairy husbandry; milk procurement; small-scale milk processing; marketing of milk products; applied economics; training and extension methodology; rural development. Commencing date: January. Duration: 26 weeks. Qualifications: Diploma in agricultural veterinary science. English. Deadline for application: 4 months before commencing date. Fees: To be arranged.

Organizer: Dairy Training Centre Friesland
Sanjestree 4
P.O. Box 85
9062 ZJ Oenkerk, Netherlands
Data handling for tropical fisheries management

Short description: Computer use and software; resource mapping, spatial and temporary pattern of fisheries, sampling, estimation of total catches, frame surveys; administration; organization of data collection and transfer, analysis and interpretation of data and catch effort, trends in catch, surplus production models, consequences for management. LF-analysis; presentation of data fisheries management. Commencing date: January. Duration: 6 weeks. Qualifications. Bachelor's degree in biology or equivalent. English. Deadline for application: 3 months before commencing date. Fees: f. 4,500.

Organizer: International Agricultural Centre (IAC)
Bureau International Training
Lawickse Allee 11
P.O. Box 88
6700 AB Wageningen, Netherlands

International animal feed training programme

Short description: Practice-oriented knowledge and skills in the supply and preparation of feed for poultry, pigs and other species of farm animals, with emphasis on the optimum utilization of locally available nutrients; includes nutritional, technical and economic/organizational aspects. Commencing date: February. Duration: 3 months. Qualifications: Diploma in agricultural science with major in animal production; direct and demonstrable links with the compound animal feed production. English. Deadline for application: December 1991. Fees: f. 2,520.

Organizer: Barneveld College International Training Centre on Animal Husbandry and Milling Technology
P.O. Box 64
3770 AB Barneveld, Netherlands

Quality assurance and marketing in food-processing enterprises

Short description: To broaden participants' views on problems of food processing; to upgrade knowledge concerning the analysis of these problems and the selection of appropriate technology and to impart implementation techniques, focusing on quality assurance and marketing. Commencing date: August. Duration: 13 weeks. Qualifications: Bachelor's degree in food technology, agricultural engineering, agricultural economics or related agricultural or management sciences. English. Deadline for application: May. Fees: f. 6,500.

Organizer: International Agricultural Centre (IAC)
Bureau International Training
Lawickse Allee 11
P.O. Box 88
6700 AB Wageningen, Netherlands

Farm collection and processing of milk

Processing of animal bones into foodstuffs and fodders

Short description: Conversion of slaughter house offals into foodstuffs and fodders by using specialized processing lines. Commencing date: January. Duration: 4 weeks. Qualifications: Engineers, technicians. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: Institute for Food Processing Machinery
ul. Otwocka 1 B
03-759 Warsaw, Poland

Tecnologia de alimentos


Organizador: Instituto de Agroquímica y Tecnología de Alimentos
Jaime Roig, 11
46010 Valencia, España

Milling technology

Short description: Wheat, rye and maize milling technology (theoretical and practical courses); basic scientific subjects relating to milling technology; physics and mathematics with emphasis on pneumatics, electrotechnics and programmable control systems; brewing technology and oat milling techniques; plant management. Commencing date: September. Duration: 10 months. Qualifications: Professional qualifications. German, English. Deadline for application: 1 year before commencing date. Fees: SwF 9,500.

Organizer: The Swiss School of Milling
Tellstrasse 2
9000 St. Gallen, Switzerland

Post-harvest technology

Short description: Post-harvest technology of fruit, vegetables and root crops: comprehensive training in these two specialized areas covering the latest and appropriate technologies. Commencing date: January, October. Duration: 3 months. Qualifications: Degree or equivalent in a relevant subject, or extensive experience. English. Deadline for application: 1 month before commencing date. Fees: To be arranged.

Organizer: Silsoe College
Silsoe
Bedfordshire MK45 4DT, United Kingdom
Leather and leather-products industries/
Industrie du cuir et des articles en cuir/
Industrias del cuero y de los productos de cuero

Chimie et technologie de la fabrication du cuir


Organisateur : Ecole belge de tannerie
6, quai Gloesmer
4020 Liège, Belgique

Quality control in the leather and leather-processing industry


Organizer: Hungarian Office for Standardization (MSZH)
P.O. Box 24
1450 Budapest 9, Hungary

Leather garments design, pattern-making and manufacture

Short description: Creation, design, planning and execution of different men’s and women’s models. Commencing date: January, May, September. Duration: 9 weeks. Qualifications: English, French or Spanish. Deadline for application: 2 months before commencing date. Fees: $US 4,500 (including accommodation).

Organizer: P.I.S.I.E.
P.O. Box 364
Via S. Marco 13
60035 Jesi (AN), Italy

Leather goods design, pattern-making and manufacture


Organizer: P.I.S.I.E.
P.O. Box 364
Via S. Marco 13
60035 Jesi (AN), Italy

Shoe design and pattern-making

Short description: Design and pattern making techniques, design and cutting of different types of shoes. Commencing date: April, July, October. Duration: 1 month.
Qualifications: English, French or Spanish. Deadline for application: 2 months before commencing date. Fees: $US 2,000 (including accommodation).

Organizer: P.I.S.I.E.
P.O. Box 364
Via S. Marco 13
60035 Jesi (AN), Italy

Shoe manufacture


Organizer: P.I.S.I.E.
P.O. Box 364
Via S. Marco 13
60035 Jesi (AN), Italy

Tanning industry (finishing)

Short description: Tanning process techniques—from crust to finished. Commencing date: March, June, October, December. Duration: 3 weeks. Qualifications: English, French or Spanish. Deadline for application: 2 months before commencing date. Fees: $US 2,000 (including accommodation).

Organizer: P.I.S.I.E.
P.O. Box 364
Via S. Marco 13
60035 Jesi (AN), Italy

Tanning industry (crust)

Short description: Tanning process techniques—from wet-blue to crust. Commencing date: February, May, September, November. Duration: 3 weeks. Qualifications: English, French or Spanish. Deadline for application: 2 months before commencing date. Fees: $US 2,000 (including accommodation).

Organizer: P.I.S.I.E.
P.O. Box 364
Via S. Marco 13
60035 Jesi (AN), Italy

Tanning industry (wet-blue)

Short description: Tanning process techniques—from raw skin to wet-blue. Commencing date: January, April, July, October. Duration: 3 weeks. Qualifications: English, French or Spanish. Deadline for application: 2 months before commencing date. Fees: $US 2,000 (including accommodation).

Organizer: P.I.S.I.E.
P.O. Box 364
Via S. Marco 13
60035 Jesi (AN), Italy

Leather quality control

Short description: Physical and chemical properties of leather; chemical analysis of leather chemicals, tannins and tannery effluents. Commencing date: April, September.
**Duration:** 13 weeks. **Qualifications:** Degree in engineering or chemistry. English. **Deadline for application:** 4 months before commencing date. **Fees:** To be arranged.

**Organizer:** TNO Centre for Leather and Shoe Research
Mr. van Cootstraat 55
P.O. Box 135
5140 AC Waalwijk, Netherlands

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**Leather technology**

**Short description:** Tannery work; mechanical operations; pollution control; waste treatment; leather chemicals; finishing methods; tannery management. **Commencing date:** April, September. **Duration:** 13 weeks. **Qualifications:** Basic knowledge of leather technology and chemistry. English. **Deadline for application:** 4 months before commencing date. **Fees:** To be arranged.

**Organizer:** TNO Centre for Leather and Shoe Research
Mr. van Cootstraat 55
P.O. Box 135
5140 AC Waalwijk, Netherlands

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**Shoe modelling and designing**

**Short description:** Sizing systems; insole diagrams and design methods; pattern cutting; upper design methods; shoe fashions; grading upper and insole patterns; manufacturing of a shoe to the bottoming stage. **Commencing date:** April, September. **Duration:** 13 weeks. **Qualifications:** Basic knowledge of shoe technology. English. **Deadline for application:** 4 months before commencing date. **Fees:** To be arranged.

**Organizer:** TNO Centre for Leather and Shoe Research
Mr. van Cootstraat 55
P.O. Box 135
5140 AC Waalwijk, Netherlands

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**Basic leather production techniques**

**Short description:** Theory and practice of leather manufacture: shoe uppers, clothing, vegetable or chrome tanned; hair-on, calf, goat, sheep, reptile. **Commencing date:** To be arranged. **Duration:** 4 weeks or longer. **Qualifications:** English. **Deadline for application:** 2 months before commencing date. **Fees:** £280 per week.

**Organizer:** The British School of Leather Technology
The Leathermakers Centre
Nene College
Moulton Park
Northampton NN2 7AL, United Kingdom

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**Effluent treatment and disposal of tannery wastes**

**Short description:** Current legislation for disposal of tannery wastes in various countries; treatment of tannery waste: hands-on analysis of effluents and experiments in aeration, coagulation, filtration and recycling of lime sulphide and chrome liquors. **Commencing date:** To be arranged. **Duration:** 4 weeks or longer. **Qualifications:** English. **Deadline for application:** 2 months before commencing date. **Fees:** £280 per week.

**Organizer:** The British School of Leather Technology
The Leathermakers Centre
Nene College
Moulton Park
Northampton NN2 7AL, United Kingdom
Physical testing and chemical analysis of leathers, chemical and process liquors

Short description: Application of JILTAC methods in a quality-control laboratory; sampling, sample preparation, physical and fastness tests on leathers; analysis of chrome and vegetable tanning materials and leathers; analysis of tannery waste liquors. Commencing date: To be arranged. Duration: 4 weeks or longer. Qualifications: English. Deadline for application: 2 months before commencing date. Fees: £280 per week.

Organizer: The British School of Leather Technology
The Leathersellers Centre
Nene College
Moulton Park
Northampton NN2 7AL, United Kingdom

Mechanical and metalworking industries/
Industrie de construction mécanique et de transformation de métaux/
Industrias mecánicas y de transformación de metales

Construction métallique


Organisateur: Spoorwegmaterieel en Metaalconstructies, BN
Vaardijkstraat 5
8200 Bruges, Belgique

Maintenance mécanique


Organisateur: Centre d'études et de recherches de l'Institut supérieur industriel catholique du Hainaut (CERISICASBL)
22, avenue de l'Hôpital
7000 Mons, Belgique

Repair and maintenance of medium and small ships

Short description. Theory in ships, materials, engines, pumps, electronics, electricity, equipment, maintenance. Practical training in a medium ship-wharf; building of small vessels, ship-repair workshop, training on board a ship in the port. Commencing date: October. Duration: 3 months. Qualifications: Engineers and technicians or equivalent, with 3 years of relevant practical experience. English. Deadline for application: —. Fees: BF 35,000 per month.

Organizer: Antwerp Port Engineering and Consulting (APEC)
6, Van Schoonbekeplein
2000 Antwerp, Belgium
Entretien et réparation du matériel ferroviaire

Brève description: Achat et stockage du matériel; activités dans les ateliers; surveillance des travaux; utilisation d'ordinateurs; formation pratique de personnel; principes économiques fondamentaux de l'entretien et de la réparation du matériel roulant.


Organisateurs: Société nationale des Chemins de fer belges (SNCB)
85, rue de France
1070 Bruxelles, Belgique et
Régie du chemin de fer Abidjan-Niger en collaboration avec l'Union africaine des chemins de fer (UAC) Abidjan,
Côte d'Ivoire et Bobo-Dioulasso, Burkina Faso

Farm machinery for field crop production

Short description: Preventive maintenance organization; selection and operation of appropriate technologies; optimization of hand-operated and tractor-powered equipment; multi-farm use of agricultural machinery; environmental impact studies; health and safety precautions. Commencing date: July. Duration: 13 weeks. Qualifications: Diploma or bachelor of science; several years of experience. English, French, Spanish. Deadline for application: February. Fees: DM 10,335 (including study materials, protective clothing, study tours).

Organizer: Deutsche Lehranstalt für Agrartechnik
Bartningstr. 49
6100 Darmstadt, Germany

Gestion des ateliers de mécanique agricole et ateliers liés à l'agriculture


Organisateur: Deutsche Lehranstalt für Agrartechnik
Bartningstr. 49
6100 Darmstadt, Allemagne

Irrigation par submersion


Organisateur: Deutsche Lehranstalt für Agrartechnik
Bartningstr. 49
6100 Darmstadt, Allemagne
Management of agricultural and related workshops


Organizer: Deutsche Lehranstalt für Agrartechnik
Bartningstr. 49
6100 Darmstadt, Germany

Management of irrigation equipment


Organizer: Deutsche Lehranstalt für Agrartechnik
Bartningstr. 49
6100 Darmstadt, Germany

Performance testing of agricultural machinery


Organizer: Deutsche Lehranstalt für Agrartechnik
Bartningstr. 49
6100 Darmstadt, Germany

String gauge technique


Organizer: Deutsche Technische Akademie GmbH
Böttcherstrasse 2
Postfach 1670
3330 Helmstedt, Germany

Tracteurs, groupes diesel et véhicules de transport en agriculture et domaines liés

Tractors, power units and automotive vehicles in agriculture and related fields

Short description: Preventive maintenance organization, diagnosis and testing of component parts, organization of workshop and overhaul procedures, staff organization and training of personnel, workshop and equipment park logistics. Commencing date: April. Duration: 13 weeks. Qualifications: Diploma or bachelor of science, or several years of relevant experience. English, French. Deadline for application: February. Fees: DM 10 032 (including study materials, protective clothing, study tours).

Organizer: Deutsche Lehraanstalt fur Agrartechnik
Bartningstr. 49
6100 Darmstadt, Allemagne

Application of electric resistance wire strain-gauge in investigations of machines

Short description: Technology of electric resistance wire strain-gauge; design and production of sensors of mechanical quantities; measurement of mechanical quantities and structural strength; multipoint measurements; measurements and analysis of experimental data. Commencing date: September. Duration: 6 weeks. Qualifications: English. Deadline for application: 4 months before commencing date. Fees: To be arranged.

Organizer: PIIMB
ul. Napoleona 2
05-230 Kobylka k/Warszawy, Poland

Calculs de résistance de constructions


Organisateur : Institut de l'Aviation
Al. Krakowsa 110/114
02-256 Varsovie, Pologne

Computer-aided mechanical design

Short description: Computer programming and technical calculations; practical approach and theory of temperature and stress-distribution calculation using finite element method; torsional vibrations of propulsion shafts; elastic mounting of engines; plain bearing calculations; computer-aided drafting. Commencing date: To be arranged. Duration: 4-6 months. Qualifications: English, Spanish, Russian. Deadline for application: To be arranged. Fees: To be arranged.

Organizer: Aviation Institute
Department of Aircraft Engines
Al. Krakowska 110/114
02-256 Warsaw, Poland
Computer-aided testing machines

Short description: Methods of acquisitions and processing experimental data; multipoint static and dynamic measurements; analysis of dynamic process in domain of amplitudes; determining fatigue of structures. Commencing date: January. Duration: 1 month. Qualifications: English. Deadline for application: 4 months before commencing date. Fees: To be arranged.

Organizer: PIMB
ul. Napoleona 2
05-230 Kobylnka k/Warszawy, Poland

Emissions of diesel engines

Short description: Investigation of emissions depending on the characteristics of the engines; tests (ECE, USA-FREPA etc.); reduction of emissions. Commencing date: April. Duration: 2 months. Qualifications: English, German. Deadline for application: —. Fees: To be arranged.

Organizer: Institute of Aeronautics
Department of IC Engines
Al. Krakowska 110/114
02-256 Warsaw, Poland

Engine testing

Short description: Systems for laboratory and stands testing of diesel and aircraft engines. Commencing date: To be arranged. Duration: 1-3 months. Qualifications: English, Russian. Deadline for application: —. Fees: To be arranged.

Organizer: Aviation Institute
Department of Aircraft Engines
Al. Krakowska 110/114
02-256 Warsaw, Poland

Fatigue tests of the structure of aeroplanes


Organizer: Aviation Institute
Al. Krakowska 110/114
02-256 Warsaw, Poland

Resonance testing of constructions

Short description: Programme elaboration, tests, data handling. flutter and dynamic tests. Commencing date: To be arranged. Duration: 1-2 months. Qualifications: English. Deadline for application: 3 months before commencing date. Fees: To be arranged.

Organizer: Aviation Institute
Al. Krakowska 110/114
02-256 Warsaw, Poland

Service loads of mechanical constructions

Strain measurement


Organizer: Institute for Building Mechanization and Rock Mining
Racjonalizacji 6/8
02-673 Warsaw, Poland

Testing and study of combustion phenomena in piston engines

Short description: Test stand and design of piston engines; measurement of torque, speed, temperatures; investigation of pressure traces during combustion; calculation of heat release. Commencing date: To be arranged. Duration: 4-6 months. Qualifications: English, Russian. Deadline for application: —. Fees: To be arranged.

Organizer: Aviation Institute
Department of Aircraft Engines
Al. Krakowska 110/114
02-256 Warsaw, Poland

Testing of axial and radial compressors

Short description: Methods of stand-testing of compressors of turbo-jet engines to determine the characteristic curves of compressors using modern techniques of computer registration and data treatment. Commencing date: To be arranged. Duration: 2 months. Qualifications: English. Deadline for application: —. Fees: To be arranged.

Organizer: Institute of Aeronautics
Department of Turbomachinery
Al. Krakowska 110/114
02-256 Warsaw, Poland

Turbocharged diesel engines with air cooling

Short description: Characteristics: combustion and fuel injection; practical experience in laboratory with turbo-charged engines; development of high-speed diesel engines; research into reduction of emissions. Commencing date: July. Duration: 2 months. Qualifications: English, Russian. Deadline for application: —. Fees: To be arranged.

Organizer: Institute of Aeronautics
Department of IC Engines
Al. Krakowska 110/114
02-256 Warsaw, Poland

Turbochargers

Short description: Aerodynamic performance characteristics; computer-aided prediction of performance; test-stand operation; calibration of probes; computer graphic output. Commencing date: To be arranged. Duration: 2 months. Qualifications: English, German. Deadline for application: —. Fees: To be arranged.
Vibration de constructions mécaniques

Brève description : Calculs de forme et des fréquences des vibrations propres en considération des conditions de bord, désignation des caractéristiques mécaniques choisies; ordinateurs VAC-3600 et PAFEC. Début du cours : À arranger. Durée : 3-4 semaines.

Organisateur : Institut de l’Aviation
Al. Krakowska 110/114
02-256 Varsovie, Pologne

Welding of steel structures

Short description: Welding of steel structures according to international standards ISO 3834 and 6213. Commencing date: October. Duration: 1 month. Qualifications: English, German, Russian. Deadline for application: 6 months before commencing date. Fees: To be arranged.

Organizer: Institute for Building Mechanization and Rock Mining
Racionalizacji 6/8
02-673 Warsaw, Poland

Wind-tunnel tests

Short description: Low- or high-speed wind-tunnel tests; balance tests; 2D/3D pressure distribution and flow visualization. Commencing date: To be arranged. Duration: 1 month. Qualifications: General knowledge of aerodynamics/fluid dynamics. English. Deadline for application: — Fees: To be arranged.

Organizer: Aviation Institute
Al. Krakowska 110/114
02-256 Warsaw, Poland

Automotive engineering

Short description: Gearbox transmission, engineering power units (petrol/diesel), body building, repair and maintenance, automotive electrics. Commencing date: To be arranged. Duration: 12-36 weeks. Qualifications: English. Deadline for application: 8 weeks before commencing date. Fees: £350 per week.

Organizer: Providence Group Services
Grainger House, Cradley Road, Five Ways
Cradley Heath
Warley, West Midlands B64 6AG, United Kingdom

Boat building

Short description: All aspects of boat construction from lofting to launching. Commencing date: January, April, September. Duration: 48 weeks. Qualifications: English. Deadline for application: 8 weeks before commencing date. Fees: £4,800.
Engineering

Short description. Training and work experience in: precision machining; press tool design, making and fitttings; basic sheet metalwork; mechanical and electrical maintenance and repairs; electrical/manual arc welding, gas welding, mig welding, tig welding. Commencing date: To be arranged. Duration: Up to 36 weeks. Qualifications: Basic mathematics. English. Deadline for application: 10 weeks before commencing date. Fees: £350 per week.

Organizer. Providence Group Services
Granger House, Cradley Road, Five Ways
Cradley Heath
Warley, West Midlands B64 6AG, United Kingdom

Industrial formation (graduate course)

Short description. A practical engineering course for mechanical, electrical, electronic and other engineering disciplines covering such aspects as design, machine shop, welding, electronics, electrical power, CAD and CAM. Commencing date: January, April, September. Duration: 12 weeks. Qualifications: A" level or equivalent in science-based subjects. English. Deadline for application: 1 month before commencing date. Fees: £1,296.

Organizer. East Warwickshire College
Professional Engineering Formation Division
Lower Hillmorton Road
Rugby CV21 3QS, United Kingdom

Industrial formation (undergraduate course)


Organizer. East Warwickshire College
Professional Engineering Formation Division
Lower Hillmorton Road
Rugby CV21 3QS, United Kingdom

Industrial formation in electronics (graduate course)


Organizer. East Warwickshire College
Professional Engineering Formation Division
Lower Hillmorton Road
Rugby CV21 3QS, United Kingdom

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Machining and CNC machining


Organizer: John Brown Engineering Training
Clydebank
Dumbartonshire G81 2HU, Scotland, United Kingdom

Machining processes


Organizer: METCOM Training
Savoy Tower
77 Renfrew Street
Glasgow G2 3BZ, Scotland, United Kingdom

Overseas engineers' industrial formation

Short description: Practical aspects of design, machine shop, welding, electronics, electrical power, CAD and CAM; better understanding of the design and construction of equipment the engineer may be using, purchasing or maintaining. Commencing date: January. Duration: 12 weeks. Qualifications: Engineering degree. English. Deadline for application: 1 month before commencing date. Fees: £2,520.

Organizer: East Warwickshire College
Professional Engineering Formation Division
Lower Hillmorton Road
Rugby CV21 3QS, United Kingdom

Overseas engineers' project design and manufacture


Organizer: East Warwickshire College
Professional Engineering Formation Division
Lower Hillmorton Road
Rugby CV21 3QS, United Kingdom

Project design and manufacture (graduate course)

Short description: Design and manufacture of a piece of engineering equipment. Commencing date: January, April. Duration: 12 weeks. Qualifications: Degree in engineering or science or equivalent. English. Deadline for application: 1 month before commencing date. Fees: £984.

Organizer: East Warwickshire College
Professional Engineering Formation Division
Lower Hillmorton Road
Rugby CV21 3QS, United Kingdom
Project design and manufacture (undergraduate course)

Short description: Manufacture of a piece of engineering equipment utilizing skills achieved in a basic training course. Commencing date: January, April. Duration: 7 weeks. Qualifications: "A" level or equivalent in science-based subjects plus completion of industrial formation course for undergraduates. English. Deadline for application: 1 month before commencing date. Fees: £770.

Organizer: East Warwickshire College
Professional Engineering Formation Division
Lower Hillmorton Road
Rugby CV21 3QS, United Kingdom

Railway trackwork engineering

Short description: Fourth RIA Track Sector Course. Commencing date: June or July. Duration: 6 weeks. Qualifications: Graduate engineers with at least 5 years railway experience. English. Deadline for application: March. Fees: Approximately £5,000 (residential).

Organizer: Railway Industry Association
6 Buckingham Gate
London SW1E 6JP, United Kingdom

Rotating equipment maintenance

Short description: Formal and hands-on modules covering operation, maintenance and control of rotating equipment. Commencing date: January, July. Duration: 24 weeks of modular courses. Qualifications: Degree in engineering or higher diploma. English. Deadline for application: 1 month before commencing date. Fees: To be arranged.

Organizer: John Brown Engineering Training
Clydebank
Dunbartonshire G81 1YA, Scotland, United Kingdom

Turbomachinery computer control

Short description: Formal and hands-on modules covering all aspects of turbomachinery computer control. Commencing date: March, September. Duration: 12 weeks. Qualifications: Degree in engineering or higher diploma. English. Deadline for application: 1 month before commencing date. Fees: To be arranged.

Organizer: John Brown Engineering Training
Clydebank
Dunbartonshire G81 1YA, Scotland, United Kingdom

Welding

Short description: Practical training in various forms of welding processes to a variety of international standards. Commencing date: February, August. Duration: 13 weeks. Qualifications: English. Deadline for application: —. Fees: To be arranged.

Organizer: METCOM Training
Savoy Tower
77 Renfrew Street
Glasgow G2 3BZ, Scotland, United Kingdom
Workshop and welding technology


Organizer: John Brown Engineering Training
Clydebank
Dunbartonshire G81 1YA, Scotland, United Kingdom

Metallurgical industries/Industrie métallurgique/
Industrias metalúrgicas

Productivity improvement in the foundry industry

Short description: Productivity increase by improving management and technical aspects; with emphasis on ferrous and non-ferrous castings. Commencing date: To be arranged. Duration: 3 weeks. Qualifications: English. Deadline for application: 3 months before commencing date. Fees: $US 100.

Organizer: Asian Productivity Organization
8-4-14, Akasaka, Minato-ku
Tokyo 107, Japan

Fatigue and fracture mechanics for metallurgists

Short description: Laboratory techniques; non-destructive testing; microscopy, analysis, design; optional modules include guided work on a project relevant to the trainees’ job. Commencing date: July, December. Duration: 4 weeks, extendable to 10 weeks with optional modules. Qualifications: Graduate metallurgists or material scientists. English. Deadline for application: 6 weeks before commencing date. Fees: £2,980 (excluding optional modules).

Organizer: British Centre for Engineering and Scientific Training
Brooklands Close
Windmill Road
Sunbury-on-Thames, Middlesex TW16 7DX, United Kingdom

Foundry technology

Short description: Basic principles of metal founding; appreciation of the effect of casting design; material selection; finished products. Foundry principles will be examined in relation to specific processes in the manufacture and use of castings. Commencing date: February, August. Duration: 13 weeks. Qualifications: English. Deadline for application: —. Fees: To be arranged.

Organizer: METCOM Training
Savoy Tower
77 Renfrew Street
Glasgow G2 3BZ, Scotland, United Kingdom
Packaging industries/Industrie de l'emballage/Industrias relacionadas con el embalaje

Emballage

Brève description : Les matières premières; le carton ondulé et son utilisation; le carton plat et son utilisation; les emballages en bois; les fûts, bidons, jerrycans, boîtes métalliques, rails; les films en matière plastique et les complexes; les sacs industriels; les sollicitations lors du transport; essais sur emballages; méthodes d'essais: appareils, normes, contrôle de la qualité; les accessoires d'emballage; le transport des marchandises dangereuses; la corrosion; les machines d'emballage; visites d'usines et canaux de distribution. Début du cours : A arranger. Durée : 3 mois. Qualifications : Diplôme universitaire. Français ou anglais. Date limite d'inscription : —. Droits d'inscription : A arranger.

Organisateur : Institut belge de l'emballage
15, rue Picard
1020 Bruxelles, Belgique

Packaging technology

Short description: Agricultural packaging; dangerous goods packaging; industrial packaging; retail packaging; packaging testing and research; quality control; environmental aspects of packaging. Commencing date: To be arranged. Duration: To be arranged. Qualifications: Professional qualifications. English. Deadline for application: —. Fees: To be arranged.

Organizer: TNO Centre for Packaging Research
P.O. Box 71
2600 AB Delft, Netherlands

Textile industries/Industrie textile/Industrias textiles

Dépollution des effluents de l'industrie textile


Organisateur : Centre de recherche et de contrôle lainier et chimique (CELAC)
Zoning de Petit Rechain
69A, avenue du Parc
4645 Chaineux, Belgique

Industrie textile

Organisateur : Centre de recherche et de contrôle lainier et chimique (CELAC)
Zoning de Petit Rechain
69A, avenue du Parc
4655 Chaineux, Verviers, Belgique

Industrie textile


Organisateur : Institut supérieur industriel de la Communauté française
3, Rue Saint-Victor
4500 Huy, Belgique

Quality control of textiles and garments


Organizer: Hungarian Office for Standardization (MSZH)
P.O. Box 24
1450 Budapest 9, Hungary

Fashion design (master course)

Short description: Theoretical and practical elements of fashion together with Italian designers. Commencing date: January. Duration: 11 months. Qualifications: English, after 4 months, also Italian. Deadline for application: 4 months before commencing date. Fees: Lit 20,000,000.

Organizer: Lomus Academy
Strada 2, Edificio C2
Milano
20090 Assago (Milano), Italy

Spécialisation mécanotextile et textile

Brève description : Fibres textiles, filature du coton, filature de la laine et différentes fibres, mécanique textile, analyse textile et contrôle de la qualité, technologie du tissage, bonneterie, chimie et mobilisation, coupe et confection, informatique, marketing, organisation. Début du cours : Janvier. Durée : 8 mois (2 mois pour le cours de langue italienne, 6 mois pour le cours de spécialisation). Qualifications : Italien. Date limite d'inscription : 2 mois avant la date de début du cours. Droits d'inscription : Lit 220 000 000.

Organisateur : CÉRIT Spa
Rue Villanova di Sotto 9/A
33170 Pordenone, Italie
Garment CAD/CAM pattern design

Short description: General knowledge of CAD systems; benefit/cost calculations and purchase; departmental organization; pattern engineering and preparation for CAD systems; computer pattern modifications; interactive grading and its organization; marker-making techniques; use of materials; cut planning. Commencing date: To be arranged. Duration: 3 weeks. Qualifications: Pattern engineers and technical staff concerned with product development. English. Deadline for application: —. Fees: f. 7,500.

Organizer: TNO Institute of Production and Logistics Research Clothing Research Department P.O. Box 541 7300 AM Apeldoorn, Netherlands

Garment technology

Short description: Quality; control; improvement and costs; assembling techniques; machinery; organization and planning and production control; pattern engineering techniques; measurements and sizes techniques; grading; CAD systems; marker making; use of raw materials; cut planning; production automation; reduction of handling procedures. Commencing date: To be arranged. Duration: 4 weeks. Qualifications: Work and departmental managers in the clothing industry. English. Deadline for application: —. Fees: f. 10,000.

Organizer: TNO Institute of Production and Logistics Research Clothing Research Department P.O. Box 541 7300 AM Apeldoorn, Netherlands

Knitting and styling

Short description: Theoretical and practical training in product development in knitting and styling workshop with up-to-date equipment, consisting of microprocessor-controlled flat and circular knitting machines. Commencing date: To be arranged. Duration: 13 weeks. Qualifications: Production managers and technical staff graduated from a textile engineering college; 2 years of experience. English. Deadline for application: —. Fees: To be arranged.

Organizer: TNO Centre for Textile Research P.O. Box 6034 2600 JA Delft, Netherlands

Logistics in the textile industry

Short description: Logistics management and the primary process, logistics management and its place in the organization, production planning, master production schedule, material requirement planning, materials management and logistic systems, just-in-time and optimized production technology, production information systems, computer applications. Commencing date: To be arranged. Duration: 4 weeks. Qualifications: Production managers and technical staff. English. Deadline for application —. Fees: To be arranged.

Organizer: Ten Cate Consultants P.O. Box 58 7600 GD Almelo, Netherlands

Manpower development in the textile industry

Short description: Organizational structures, workload and workload calculations, preparation of job descriptions, assessment of training requirements, selection of workers.
industrial training, skills analysis and task breakdown, role of the instructor, training instructors, training objectives and training aids, retraining adult workers, preparation of course books and handouts. Commencing date: To be arranged. Duration: 6 weeks. Qualifications: Production managers, training managers and training staff. English. Deadline for application: —. Fees: To be arranged.

Organizer: Ten Cate Consultants
P.O. Box 58
7600 GD Almelo, Netherlands

Sizing technology

Short description: Raw materials, spinfibres, yarns, yarn winding, warping, starch chemistry, native starch, modified starches, the application of sizing agents, the sizing process, size formulations, sizing of high-density warps, testing of sizing agents and sized yarn in the laboratory, sizing agents based on other natural and synthetic polymers, effects of the sizing process on weaving and finishing, environmental aspects of the application of sizing agents, improving the efficient use of sizing agents, recycling of sizing agents, solvent sizing, new technical developments. Commencing date: To be arranged. Duration: 3 weeks. Qualifications: Production managers and technical staff. English. Deadline for application: —. Fees: To be arranged.

Organizer: Ten Cate Consultants
P.O. Box 58
7600 GD Almelo, Netherlands

Textile

Short description: Testing of fibres, yarns, fabrics, knitted fabrics, non-wovens, carpets and garments, testing methods, interpretation of test results and formulation of specifications for special end-uses. Commencing date: To be arranged. Duration: 5 days to 3 months. Qualifications: Professional qualifications. English or German. Deadline for application: —. Fees: To be arranged.

Organizer: TNO Centre for Textile Research
P.O. Box 6034
2600 JA Delft, Netherlands

Textile technology and management

Short description: Theory and practice of industrial organization and management; costing, maintenance; production control; quality control; statistics; trouble-shooting, operative section; training. Theory and practice of textile manufacturing processes: cotton and synthetics spinning; weaving; knitting; dyeing; finishing and printing. Commencing date: January, August. Duration: 16 weeks. Qualifications. Degree from a textile engineering college or equivalent. English Deadline for application: 4 months before commencing date. Fees. To be arranged.

Organizer: International Institute for Technology and Management (ITM)
Arensplein 3
P.O. Box 1075
7500 BB Enschede, Netherlands

Textile technology and management

Short description: Theory and practice of industrial organization and management; costing, production and quality control, computer applications, statistics, trouble shooting, preventive maintenance, industrial air-conditioning, saving of energy, environmental
aspects, marketing, project evaluation; theory and practice of textile manufacturing processes: spinning, weaving, and processing; case studies and mill visits. Commencing date: To be arranged. Duration: 16 weeks. Qualifications: Production managers and technical staff. English. Deadline for application: —. Fees: To be arranged.

Organizer: Ten Cate Consultants
P.O. Box 58
7600 GD Almelo, Netherlands

Textile technology

Short description: Fundamentals of textile science and textile technology; properties of natural and synthetic fibres; testing and quality assurance; yarn manufacture; knitting; weaving; non-wovens; printing, dyeing and finishing. The courses can be modified to suit any individual needs. Commencing date: October. Duration: 1-20 weeks. Qualifications: Basic qualifications in textile technology. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: University of Leeds
Department of Textile Industries
Leeds LS2 9JT, United Kingdom

Wood-processing and wood-products industries/
Industrie du bois et des produits du bois/
Industrias de elaboración de la madera y de productos de madera

Technologie du bois


Organisateur: Faculté des sciences agronomiques
Station de technologie forestière
1, avenue du Maréchal-Juin
5800 Gembloux, Belgique

Formation des producteurs de bois des pays tropicaux


Organisateur: INB
6, avenue de Saint-Mandé
75012 Paris, France

Formation de vendeurs de bois et produits dérivés


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Organisateur : INB
6, avenue de Saint-Mandé
75012 Paris, France

Timber drying

Organizer: Head, Overseas Operations
Timber Research and Development Association
Hughenden Valley
High Wycombe, Buckinghamshire HP14 4ND, United Kingdom

Timber engineering design

Organizer: Head, Overseas Operations
Timber Research and Development Association
Hughenden Valley
High Wycombe, Buckinghamshire HP14 4ND, United Kingdom

Wood preservation and deterioration

Short description: Any specific topic according to client’s requirements. Commencing date: To be arranged. Duration: To be arranged. Qualifications: English. Deadline for application: —. Fees: To be arranged.
Organizer: Biology Department
Imperial College of Science, Technology and Medicine
Prince Consort Road
London SW7 2BB, United Kingdom

Other industrial branches and intersectoral programmes/
Autres secteurs industriels et programmes intersectoriels/
Otras ramas industriales y programas intersectoriales

Matériaux composites

Organisateur : CRIF
200, rue du Chêna
4000 Liège, Belgique
Technologies nouvelles


Organisateur : CRIF
200, rue du Chéra
4000 Liège, Belgique

Modern methods and procedures in length testing

Short description: Basic principles; influences on measuring procedures; mechanical, electronic, pneumatic and optical measuring instruments; selection and control of testing equipment. Commencing date: To be arranged. Duration: 4 weeks. Qualifications: Professional qualifications. German, English. Deadline for application: 2 months before commencing date. Fees: DM 6,000.

Organizer: Deutsche Technische Akademie GmbH
Bötticherstrasse 2
Postfach 1670
3330 Helmstedt, Germany

Offset printing


Organizer: Printpromotion GmbH
P.O. Box 710864
6000 Frankfurt 71, Germany

Reproduction photography


Organizer: Printpromotion GmbH
P.O. Box 710864
6000 Frankfurt 71, Germany

Weighing techniques


Organizer: Deutsche Technische Akademie GmbH
Bötticherstrasse 2
Postfach 1670
3330 Helmstedt, Germany
Motivation for productivity

Short description: Philosophy and practice of worker motivation to improve productivity in the Japanese environment; insights and ideas which participants can adapt for use in their own countries. Commencing date: June. Duration: 3 weeks. Qualifications: English. Deadline for application: 3 months before commencing date. Fees: SUS 100.

Organizer: Asian Productivity Organization
8-4-14, Akasaka, Minato-ku
Tokyo 107, Japan

Video programme production techniques

Short description: Technical training utilizing institutional/professional audiovisual equipment. Commencing date: March, May, August, October. Duration: 5 weeks. Qualifications: English. Deadline for application: 2 months before commencing date. Fees: ¥27,500 per day.

Organizer: International Training, ICD
Sony Corporation
6-7-35 Kitashinagawa, Shinagawa-ku
Tokyo 141, Japan

Airport maintenance


Organizer: Airport Management Services B.V.
Schiphol-Oost, Gebouw 70
P.O. Box 7501
1118 ZG Schiphol, Netherlands

Graphic design

Short description: Typography; composition; chromatics; illustration; photography; silk-screen printing; extension oriented design; workshop on shopfloor management; desktop publishing. Commencing date: January, August. Duration: 18 weeks. Qualifications: Vocational training or professional experience. English. Deadline for application: 4 months before commencing date. Fees: f. 18,100.

Organizer: Graphic Media Development Centre (GMDC)
Christofel Plantijnstraat 1
P.O. Box 20014
2500 EA The Hague, Netherlands

Housing, planning and building

Short description: Training and research programme in the areas of housing, planning and building, focusing on housing and urban development approaches relevant to low-income population in developing countries. Commencing date: January, August. Duration: 20 weeks. Qualifications: Bachelor's degree or equivalent. English. Deadline for application: 4 months before commencing date. Fees: f. 14,000.

Organizer: Institute for Housing Studies (IHS)
P.O. Box 1935
3000 BX Rotterdam, Netherlands
Hydraulic engineering—branch a: river engineering and river structures

*Short description:* Study branches a, b and c have a common package of basic engineering subjects such as hydraulics, groundwater flow, soil mechanics, statistics, engineering hydrology and informatics. Specific subjects for each branch (compulsory and elective) are then added. *Commencing date:* October. *Duration:* 11 months (additional 7 months for Master's programme). *Qualifications:* Degree in civil engineering or related science. English. *Deadline for application:* July. *Fees:* f. 7,500 (including field trips).

**Organizer:** International Institute for Hydraulic and Environmental Engineering (IHE)  
P.O. Box 3015  
2601 DA Delft, Netherlands

Hydraulic engineering—branch b: coastal, estuarial and harbour engineering

*Short description:* Study branches a, b and c have a common package of basic engineering subjects such as hydraulics, groundwater flow, soil mechanics, statistics, engineering hydrology and informatics. Specific subjects for each branch (compulsory and elective) are then added. *Commencing date:* October. *Duration:* 11 months (additional 7 months for Master's programme). *Qualifications:* Degree in civil engineering or related science. English. *Deadline for application:* July. *Fees:* f. 7,500 (including field trips).

**Organizer:** International Institute for Hydraulic and Environmental Engineering (IHE)  
P.O. Box 3015  
2601 DA Delft, Netherlands

Hydraulic engineering—branch c: land and water development

*Short description:* Study branches a, b and c have a common package of basic engineering subjects such as hydraulics, groundwater flow, soil mechanics, statistics, engineering hydrology and informatics. Specific subjects for each branch (compulsory and elective) are then added. *Commencing date:* October. *Duration:* 11 months (additional 7 months for Master's programme). *Qualifications:* Degree in civil engineering or related science. English. *Deadline for application:* July. *Fees:* f. 7,500 (including field trips).

**Organizer:** International Institute for Hydraulic and Environmental Engineering (IHE)  
P.O. Box 3015  
2601 DA Delft, Netherlands

Modernization and management of irrigation systems


**Organizer:** International Institute for Hydraulic and Environmental Engineering (IHE)  
P.O. Box 3015  
2601 DA Delft, Netherlands

Print production

*Short description:* Text production; desktop publishing; montage; photography and offset-plate making; offset printing and print finishing; graphic design and layout; workshop
on shopfloor management; silkscreen printing. **Commencing date:** January, August. **Duration:** 18 weeks. **Qualifications:** Secondary education and professional experience in the printing industry. English. **Deadline for application:** 4 months before commencing date. **Fees:** f. 17,725.

**Organizer:** Graphic Media Development Centre (GMDC)
Christoffel Plantijnstraat 1
P.O. Box 20014
2500 EA The Hague, Netherlands

Measurement and evaluation of noise and vibration affecting human beings

**Short description:** The course will be led according to the international standards ISO 2204, ISO 2631 and ISO 5349. **Commencing date:** April. **Duration:** 1 month. **Qualifications:** English, German, Russian. **Deadline for application:** 6 months before commencing date. **Fees:** To be arranged.

**Organizer:** Institute for Building Mechanization and Rock Mining
Racjonalizacji 6/8
02-673 Warsaw, Poland

Operation of nuclear reactors

**Short description:** Reactor physics, heat transfer; reactor safety and practical training in exploitation of research reactor. **Commencing date:** September. **Duration:** 5 weeks. **Qualifications:** English, Russian. **Deadline for application:** March. **Fees:** To be arranged.

**Organizer:** Institute of Atomic Energy
05-400 Swierk-Otwock, Poland

Quality assurance in building design and construction

**Short description:** Quality assurance of buildings through the system of functional requirements, standards, technical approvals and attestations as well as in situ diagnostics. **Commencing date:** October. **Duration:** 1 month. **Qualifications:** Civil engineers or other relevant degree. English. **Deadline for application:** 6 months before commencing date. **Fees:** To be arranged.

**Organizer:** Building Research Institute
Filtrowa Street 1
00-950 Warsaw, Poland

Testing of materials by eddy current method

**Short description:** Physical basics, magnetism, eddy currents basics; probes, equipment, investigated materials and products; principal applications, manuals, regulations, last achievements. **Commencing date:** To be arranged. **Duration:** 3-4 weeks. **Qualifications:** Technical high school graduates, engineers. English, German. **Deadline for application:** To be arranged. **Fees:** To be arranged.

**Organizer:** Institute of Precision Mechanics
ul. Duchniaka 3
00-967 Warsaw, Poland

Hidrología subterránea

**Breve descripción:** Ingeniería del comportamiento, estudio, prospección, captación, protección, planificación y gestión de las aguas subterráneas, y su interrelación con otras
fases del ciclo hidrológico y con el medio ambiente; recursos de agua; temas en relación con la ingeniería geológica, civil, industrial, minera, ambiental y agronómica.

**Organizador:** Curso Internacional de Hidrología Subterránea
c/Beethoven 15, 6°
08021 Barcelona, España

**Infrastructure for low-income urban housing**

*Short description:* For professionals involved or seeking to be involved in developing and servicing housing schemes. Includes preparation and management of projects, water supply, sanitation, other services, buildings. *Commencing date:* October. *Duration:* 12 weeks. *Qualifications:* Appropriate professional experience. English. *Deadline for application:* —. *Fees:* £5,950.

**Organizer:** Water, Engineering and Development Centre (WEDC)
Loughborough University of Technology
Loughborough, Leicestershire LE11 3TU, United Kingdom

**Irrigation and water resources**


**Organizer:** Water, Engineering and Development Centre (WEDC)
Loughborough University of Technology
Loughborough, Leicestershire LE11 3TU, United Kingdom

**Land resource survey and planning**

*Short description:* Principles of resource surveys; ground survey techniques; computing techniques; remote sensing; geographic information systems; map and report production; methods of utilizing results. *Commencing date:* August. *Duration:* 12 weeks. *Qualifications:* English. *Deadline for application:* 1 week before commencing date. *Fees:* £6,950.

**Organizer:** Ian MacDonald and Associates Ltd.
36 Robertson Road
Brighton, East Sussex BN1 5NL, United Kingdom

**Process Instrumentation and control**


**Organizer:** John Brown Engineering Training
Clydebank
Dunbartonshire G81 1YA, Scotland, United Kingdom

**Railway civil engineering**

*Short description:* Lecture/project-based course with practical attachments for experienced civil engineers working in maintenance and renewal of permanent way. *Commencing*
January. Duration: 12 weeks. Qualifications: Degree or equivalent in civil engineering and minimum of 3 years experience. English. Deadline for application: 2 months before commencing date. Fees: £8,500.

Organizer: Training Manager
Transmark
169 Westbourne Terrace
London W2 6JY, United Kingdom

Venue: Watford, United Kingdom

Railway engineering

Short description: Classroom studies, case studies and field visits; for experienced mechanical and electrical engineers involved in maintenance. Commencing date: January. Duration: 20 weeks (modular). Qualifications: Relevant degree or equivalent and minimum of 3 years experience. English. Deadline for application: 2 months before commencing date. Fees: £14,375.

Organizer: Training Manager
Transmark
169 Westbourne Terrace
London W2 6JY, United Kingdom

Venue: Derby, United Kingdom

Roads maintenance management

Short description: Efficient and effective maintenance of roads through improved technical knowledge and better management techniques. Commencing date: March. Duration: 12 weeks. Qualifications: Professional experience. English. Deadline for application: 1 month before commencing date. Fees: To be arranged.

Organizer: Crown Agents
Manpower Development Services
St. Nicholas House
Sutton, Surrey SM1 1EL, United Kingdom

Venue: Crown Agents
Management Training Centre
3-10 Marine Parade
Worthing, Sussex BN11 3PW, United Kingdom

Road renovation and maintenance management systems

Short description: Design: methods, aids and analytical techniques, evaluation, geotechnics; construction: planning, materials, plant, mobilization and use of materials; maintenance: failure investigation, setting of standards, instrumentation. Commencing date: June, November. Duration: 7 weeks. Qualifications: Engineering graduate or engineering work experience. English. Deadline for application: 6 weeks before commencing date. Fees: £8,000.

Organizer: British Centre for Engineering and Scientific Training
Brooklands Close
Windmill Road
Sunbury on Thames, Middlesex TW16 7DX, United Kingdom

Science and technology policy

Short description: Salient features of science and technology policy in developing countries particularly as regards its designing and execution; the role of technology in
development, i.e. technical progress, choice of technology and transfer of technology. 
Commencing date: October. Duration: 12 weeks. Qualifications: University degree or relevant work experience in developing countries. English. Deadline for application: May. Fees: Approximately £4,000 (including living costs).

Organizer: David Livingstone Institute
University of Strathclyde
Livingstone Tower
Glasgow, Scotland, United Kingdom

Signalling technology (Intermediate)


Organizer: Training Manager
Transmark
169 Westbourne Terrace
London W2 6JY, United Kingdom

Venue: Doncaster, York, United Kingdom

Signalling technology (advanced)

Short description: Lecture-based course with practical sessions for experienced signal engineers leading to examination equivalent to that of Institute of Railway Signal Engineers. Commencing date: May. Duration: 2 + 2 weeks (with 2 weeks between modules). Qualifications: Degree or equivalent in electrical or electronic engineering and minimum of 3 years experience. English. Deadline for application: March. Fees: £5,000.

Organizer: Training Manager
Transmark
169 Westbourne Terrace
London W2 6JY, United Kingdom

Venue: Railway Engineering School
Derby, United Kingdom

Soil mechanics for civil engineers

Short description: Site investigation, soil testing in the field, laboratory testing, soil analysis, earth pressures, rock mechanics, foundation engineering and optional course modules. Commencing date: July, December. Duration: 3 weeks, extendable to 18 weeks with optional modules. Qualifications: Engineering graduate or engineering work experience. English. Deadline for application: 6 weeks before commencing date. Fees: £1,950 (without optional modules).

Organizer: British Centre for Engineering and Scientific Training
Brooklands Close
Windmill Road
Sunbury-on-Thames, Middlesex TW16 7DX, United Kingdom

Urban traffic and transport—policy and planning

Short description. Relevance of existing methods of traffic and transport planning in developing countries: improvements and innovations. Commencing date: April.

Organizer: Development Planning Unit
University College London
9 Endsleigh Gardens
London WC1H OED, United Kingdom

Waste water and irrigation


Organizer: Water Engineering and Development Centre (WEDC)
Loughborough University of Technology
Loughborough, Leicestershire LE11 3TU, United Kingdom

Women, men and development

Short description: For all those concerned with gender equality within social change. Commencing date: September. Duration: 3 months. Qualifications: English. Deadline for application: —. Fees: To be arranged.

Organizer: Institute of Development Studies
University of Sussex
Brighton BN1 9RE, United Kingdom


2. INDUSTRIAL FUNCTIONS/FONCTIONS INDUSTRIELLES/FUNCIONES INDUSTRIALES

Automation and data processing/Automatisation et traitement
des données/Automatización y procesamiento de datos

Informatique appliquée

Brève description : Structure de l'ordinateur; programmation structurée; programmation modulaire; langage Pascal; algorithmique; validité des programmes; application PC.


Organisateur : Centre d'études et de recherches de l'Institut supérieur industriel catholique du Hainaut (CERISICASBL)
22, avenue de l'Hôtel
7000 Mons, Belgique

Mechatronics and its applications


Organizer: Asian Productivity Organization
8-4-14, Akasaka, Minato-ku
Tokyo 107, Japan

Computer use in business operations

Short description: The EDP concept; computer hardware, functions, software development and design; systems analysis; fourth generation programming languages; personal computer applications (spreadsheet, word-processing, databases, tools). Commencing date: March, September. Duration: 13 weeks. Qualifications: Bachelor's degree or equivalent in a relevant field of study. English. Deadline for application: January, July. Fees: f. 16,000.

Organizer: International Centre for Quality and Management Sciences (ICQMS)
'S-Gravendijkwal 10
P.O. Box 2082
3000 CB Rotterdam, Netherlands

Pascal programming with program examples

Organizer: Aviation Institute
Al. Krakowska 110/114
02-256 Warsaw, Poland

Architectural and civil engineering AUTOCAD


Organizer: Training Manager
East Kilbride and District Eng. G.T.A. Ltd.
3 Law Place
Nerston Industrial Estate
East Kilbride G74 4PP, Scotland, United Kingdom

AUTOCAD


Organizer: Training Manager
East Kilbride and District Eng. G.T.A. Ltd.
3 Law Place
Nerston Industrial Estate
East Kilbride G74 4PP, Scotland, United Kingdom

Business software

Short description: Accounts; stock control; schedules; estimating; word-processing; integrated software. Commencing date: April, June, August, October. Duration: 6 weeks. Qualifications: English. Deadline for application: 1 month before commencing date. Fees: £1,500.

Organizer: Training Manager
East Kilbride and District Eng. G.T.A. Ltd.
3 Law Place
Nerston Industrial Estate
East Kilbride G74 4PP, Scotland, United Kingdom

CADCAM

Short description: Computer aided design and manufacture by AUTOCAD software interfacing to machine with post processor using Fanuc and Heidenhein systems. Commencing date: April, June, August, October. Duration: 8 weeks. Qualifications: English. Deadline for application: —. Fees: £2,400.

Organizer: Training Manager
East Kilbride and District Eng. G.T.A. Ltd.
3 Law Place
Nerston Industrial Estate
East Kilbride G74 4PP, Scotland, United Kingdom
Computer-aided design

Short description: CAD course structured to give a good theoretical/practical balance for architects and engineers. Commencing date: To be arranged. Duration: 12 weeks. Qualifications: Architects and engineers. English. Deadline for application: 1 month before commencing date. Fees: To be arranged.

Organizer: Chattaway (UK) Training Services
Pool Chambers
26 Dam Street
Lichfield, Staffordshire WS13 6AA, United Kingdom

Computer-integrated manufacturing (CIM)

Short description: Traditional methods and practical experience. Computer-based techniques introduce and develop an understanding of CIM which is reinforced by attachments of visits to working CIM environments. Commencing date: To be arranged. Duration: 2-4 weeks. Qualifications: Degree in engineering or other related subject, with 2 years of industrial experience. English. Deadline for application: 3 months before commencing date. Fees: £500-700.

Organizer: AMTRI
Hulley Road
Macclesfield, Cheshire SK10 2NE, United Kingdom

Computer subjects

Short description: Introduction, lectures and “hands-on” training in writing programs for industrial and commercial applications in the popular programming languages. Commencing date: To be arranged. Duration: 12 weeks. Qualifications: Professional qualifications. English. Deadline for application: 1 month before commencing date. Fees: To be arranged.

Organizer: Chattaway (UK) Training Services
Pool Chambers
26 Dam Street
Lichfield, Staffordshire WS13 6AA, United Kingdom

Computer training

Short description: Basic to advanced-level training; all instruction on IBM compatible machines; business applications and word-processing. Commencing date: To be arranged. Duration: To be arranged. Qualifications: English. Deadline for application: --. Fees: To be arranged.

Organizer: Teesside Transport Training Association
Cargo Fleet Lane
Middlesbrough, Cleveland, United Kingdom

Energy/Energie/Energia

Energies renouvelables

Brève description : Disponibilité et mesure des sources des énergies renouvelables : solaire, éolienne, hydraulique; description des équipements, techniques commerciales, performances, champ d'application, cas pratiques; calculs technico-économiques des

Organisateur : Science
98, avenue de Tervueren
1040 Bruxelles, Belgique

Thermique


Organisateur : Centre d’études et de recherches de l’Institut supérieur industriel catholique du Hainaut (CERISICASBL)
22, avenue de l’Hôpital
7000 Mons, Belgique

Production et distribution d’énergie électrique


Organisateur : Association momentoisée CIFOP — FABRIMETAL
1b, avenue Général Michel
6000 Charleroi, Belgique

Industrial energy auditing


Organizer: UNIDO-Czechoslovakia Joint Programme for Cooperation
Non-metallic Industries
Pražská 12
305 11 Plzeň, Czechoslovakia

Energy management

Short description: Concept and techniques of energy management at the plant level to enable participants to devise and implement appropriate measures for improved energy utilization and productivity in an enterprise. Commencing date: November. Duration,
Energy management for small- and medium-scale industries

Short description: Managerial and technical aspects of energy management in small- and medium-scale industries, organized in cooperation with the Technology and Development Group of the Twente University. Commencing date: October. Duration: 5 weeks. Qualifications: Bachelor's degree in engineering or economics. English. Deadline for application: August. Fees: f. 10,000

Organizer: Netherlands International Institute for Management (RVB)
Endepolisdomein 150
P.O. Box 1203
6201 BE Maastricht, Netherlands

Rural energy and environment

Short description: Biomass energy technologies; photovoltaic solar energy applications; techniques of various possible sources for rural energy supply; rural multi-objective analysis and planning; problems of implementation and resource management. Commencing date: May. Duration: 1-8 weeks. Qualifications: Degree in relevant field of study. English. Deadline for application: March. Fees: f. 1,750-10,000

Organizer: University of Twente Technology and Development Group
Drienerloaan 5
P.O. Box 217
7500 AE Enschede, Netherlands

Réseaux électriques industriels et ruraux


Organisateur: Politechnika Gdańska
Instytut Elektroenergetyki i Automatyki
ul. Majakowskiego 11/12
80-233 Gdańsk, Pologne

Advanced control and instrumentation engineering

Short description: Electronics; pressure, flow and temperature measurement; pneumatics; telemetering; power and logic systems; gas and water analysis; turbine supervision; auto control; data acquisition. Formal training, visits to manufacturers and short attachments to power stations. Commencing date: October. Duration: 24 weeks. Qualifications: Degree in engineering, with 3-5 years of experience. Deadline for application: 2 months before commencing date. Fees. To be arranged.

Organizer: BEI Training Services
16-18 Chequer Street
St. Albans, Hertfordshire AL1 3YD, United Kingdom
Distribution engineering (132kV-11kV)

Short description: Plant and equipment, planning and design, protection, metering and telecoms, UGC, OHL, safety and system operations, job administration and organization. Commencing date: January. Duration: 13 weeks. Qualifications: Degree or equivalent in electronic or electrical engineering, with at least 3 years of experience. English. Deadline for application: 2 months before commencing date. Fees: Approximately £400 per week.

Organizer: BEI Training Services
16-18 Chequer Street
St. Albans, Hertfordshire AL1 3YD. United Kingdom

Energy management

Short description: The course introduces and explains the host organization's approach to energy reduction; it covers energy audits, practical application and modelling/optimization techniques. Commencing date: September. Duration: 3 weeks. Qualifications: Graduate engineers or managers responsible for energy reduction. English. Deadline for application: 3 weeks before commencing date. Fees: To be arranged.

Organizer: Training Manager
ICI Chemicals and Polymers Ltd.
Process Plant Services
P.O. Box 1
Billingham, Cleveland TS23 1LB, United Kingdom

Environmental management in the power sector

Short description: The changing environmental climate, regulatory framework, formulating a policy, implications for new plant, assessment and control, acid deposition, greenhouse effect, educating the public. Commencing date: To be arranged. Duration: 6 weeks. Qualifications: University degree in science or engineering, with 10 years of experience in the power sector. English. Deadline for application: To be arranged. Fees: To be arranged.

Organizer: BEI Training Services
16-18 Chequer Street
St. Albans, Hertfordshire AL1 3YD. United Kingdom

Industrial and commercial installations engineering (240V-11kV)

Short description: Electronics, control systems, wiring regulations and practice, protection, lighting systems, switching, safety, equipment maintenance, telecoms, stores control, financial control and budgeting, job administration, supervisory aspects including communications and leadership. Commencing date: To be arranged. Duration: 13 weeks. Qualifications: Degree or equivalent in electronic/electrical engineering with at least 3 years of experience. English. Deadline for application: To be arranged. Fees: To be arranged.

Organizer: BEI Training Services
16-18 Chequer Street
St. Albans, Hertfordshire AL1 3YD. United Kingdom

Plant life extension and modernization in the power sector

Short description: Maintenance philosophy, plant performance and assessment, analyses of changes and inspection; condition monitoring, specific tests (heat consumption/efficiency), non-destructive tests. Formal training and attachments to plant testing and
NIIT units. **Commencing date:** To be arranged. **Duration:** 6 weeks. **Qualifications:** Degree in engineering and 10 years of relevant experience. English. **Deadline for application:** To be arranged. **Fees:** To be arranged.

**Organizer:** BEI Training Services  
16-18 Chequer Street  
St. Albans, Hertfordshire AL1 3YD, United Kingdom

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**Power station chemistry**

**Short description:** Water and steam analysis and quality control, fuel oil sampling and analysis, gas analysis, environmental analysis and quality control, water treatment plant and make-up systems. Attachment to modern power station, study visits. **Commencing date:** September. **Duration:** 6 weeks. **Qualifications:** Degree in chemistry with a minimum of 5 years of experience. English. **Deadline for application:** 2 months before commencing date. **Fees:** To be arranged.

**Organizer:** BEI Training Services  
16-18 Chequer Street  
St. Albans, Hertfordshire AL1 3YD, United Kingdom

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**Power station maintenance**

**Short description:** Organization and staffing, PF-fired boiler plant, steam turbine plant, coal, ash and dust handling plants, C and I, fire and electrical plant, protection, NDT, welding, maintenance planning, contract management. Formal training and attachment to a power station. **Commencing date:** June. **Duration:** 10 weeks. **Qualifications:** Maintenance staff with a minimum of 10 years of experience. **Deadline for application:** 2 months before commencing date. **Fees:** To be arranged.

**Organizer:** BEI Training Services  
16-18 Chequer Street  
St. Albans, Hertfordshire AL1 3YD, United Kingdom

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**Power station management**

**Short description:** Organization and staffing, business planning, financial aspects, industrial relations, contract management, QA and reliability, design developments, PS management, safety. Formal training and study tours. **Commencing date:** October. **Duration:** 6 weeks. **Qualifications:** Degree in engineering with 15 years of experience. English. **Deadline for application:** 2 months before commencing date. **Fees:** To be arranged.

**Organizer:** BEI Training Services  
16-18 Chequer Street  
St. Albans, Hertfordshire AL1 3YD, United Kingdom

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**Power station operations**

**Short description:** Organization and staffing, PF-fired boiler plant, steam turbine plant, coal/ash/dust plant, safety systems, C and I, chemical, electrical, system OPS, PS planning, operations, protection. Formal training, study visits, on-the-job training. **Commencing date:** January, September. **Duration:** 13 weeks (on-the-job training will involve shift work). **Qualifications:** Degree in engineering with 10 years of experience. English. **Deadline for application:** 2 months before commencing date. **Fees:** To be arranged.

**Organizer:** BEI Training Services  
16-18 Chequer Street  
St. Albans, Hertfordshire AL1 3YD, United Kingdom
Power system operations (275-400 kV)


Organizer: BEI Training Services  
16-18 Chequer Street  
St. Albans, Hertfordshire AL1 3YD, United Kingdom

Scientific services in the power sector

*Short description:* Boiler combustion efficiency; flame stability; furnace fouling; metallurgy; corrosion of fireside, tubes, superheater, reheater; turbogenerator-heat transfer; vibration; stress, creep. *Commencing date:* To be arranged. *Duration:* 6 weeks. *Qualifications:* Ph.D, degree in science or engineering with 10 years of experience. English. *Deadline for application:* To be arranged. *Fees:* To be arranged.

Organizer: BEI Training Services  
16-18 Chequer Street  
St. Albans, Hertfordshire AL1 3YD, United Kingdom

Simulator Instructors for the power sector

*Short description:* Formal training in instructional techniques, 3-week attachment to a simulator training unit and 5 weeks on-the-job training with a shift team in a power station. *Commencing date:* February. *Duration:* 10 weeks. *Qualifications:* Engineers employed or to be employed as simulator instructors. English. *Deadline for application:* 2 months before commencing date. *Fees:* To be arranged.

Organizer: BEI Training Services  
16-18 Chequer Street  
St. Albans, Hertfordshire AL1 3YD, United Kingdom

Transmission operation and maintenance (275-400 kV)

*Short description:* Design features, operation maintenance and testing of overhead lines, power cables, substations, transformers, switchgear, protection and telecommunications equipment. *Commencing date:* February. *Duration:* 6 weeks. *Qualifications:* Degree in engineering with 10 years of experience. English. *Deadline for application:* 2 months before commencing date. *Fees:* Approximately £400 per week.

Organizer: BEI Training Services  
16-18 Chequer Street  
St. Albans, Hertfordshire AL1 3YD, United Kingdom

Environment/Environnement/Medio ambiente

Resource conservation and environmental protection

*Short description:* Insight into activities and measures undertaken in Japan to conserve her resources and to safeguard her environment; ideas which could be adapted to minimize dangers to the environment in participants' home country. *Commencing date:* January.

Organizer: Asian Productivity Organization
8-4-14, Akasaka, Minato-ku
Tokyo 107, Japan

Anaerobic waste-water

Short description: Selection of technologies; design, construction, operation and maintenance of anaerobic installations. Commencing date: June. Duration: 6 weeks. Qualifications: Degree in civil, chemical or agricultural engineering. English. Deadline for application: May. Fees: f. 4,000.

Organizer: International Institute for Hydraulic and Environmental Engineering (IHE)
Postbus 3015
2601 DA Delft, Netherlands

Applied ecology

Short description: Environmental resource management; ecosystem analysis; applicability of ecological principles in environmental management. Commencing date: June. Duration: 8 weeks. Qualifications: Degree in biology, chemistry, chemical engineering or related science. English. Deadline for application: May. Fees: f. 4,000.

Organizer: International Institute for Hydraulic and Environmental Engineering (IHE)
Postbus 3015
2601 DA Delft, Netherlands

Environmental science and technology

Short description: Training in methods for understanding and counteracting harmful effects on the environment (air, soil and water) of various kinds of pollution; industrialization, irrigation, fertilizers and pesticides, deforestation. Commencing date: October. Duration: 11 months (7 additional months for master's programme). Qualifications: Degree in biology, chemistry, chemical engineering or related science. English. Deadline for application: July. Fees: f. 7,500 (including field trips).

Organizer: International Institute for Hydraulic and Environmental Engineering (IHE)
Postbus 3015
2601 DA Delft, Netherlands

Low-cost water supply and sanitation

Short description: Various technologies and approaches in the field of low-cost water supply and sanitation; application of that knowledge in practical situations. Commencing date: June. Duration: 8 weeks. Qualifications: Degree in civil, sanitary, mechanical or chemical engineering. English. Deadline for application: May. Fees: f. 4,000.

Organizer: International Institute for Hydraulic and Environmental Engineering (IHE)
Postbus 3015
2601 DA Delft, Netherlands
Management of the environment

Short description: Environmental problems of industrial companies in urban and rural areas; environmental elements of national policy formulation; environmental management in government. Commencing date: September. Duration: 13 weeks. Qualifications: Degree in economics, technical or social sciences. English. Deadline for application: July. Fees: f. 15,500.

Organizer: Netherlands International Institute for Management (RVB)
Executive Programmes
Enedepolsdomin 150
P.O. Box 1203
6201 BE Maastricht, Netherlands

Sanitary engineering

Short description: Water supply and sanitation in rural and urbanized areas, design of water and waste-water treatment plants and of water distribution and waste-water collection systems. Commencing date: October. Duration: 11 months (7 additional months for master’s programme). Qualifications: Degree in civil, sanitary, mechanical or chemical engineering. English. Deadline for application: July. Fees: f. 7,500 (including field trips).

Organizer: International Institute for Hydraulic and Environmental Engineering (IHE)
Postbus 3015
2601 DA Delft, Netherlands

Sustainability in water supply and sanitation programmes in rural and peri-urban areas

Short description: For senior national and expatriate staff in the water supply and sanitation sectors, to refresh and upgrade their knowledge about the sustainability aspects of managing integrated water supply and sanitation programmes. Commencing date: January, November. Duration: 3 weeks. Qualifications: Completed higher education in a relevant discipline. English. Deadline for application: 1 month before commencing date. Fees: f. 6,000.

Organizer: Management for Development Foundation (MDF)
Management Courses
Bosrand 28
P.O. Box 430
6710 BK Ede, Netherlands

Water quality management

Short description: Water quality management in river and lake basins, deltas and estuaries for decision-makers and water experts involved with water resources management. Commencing date: June. Duration: 8 weeks. Qualifications: Degree in civil, sanitary, mechanical or chemical engineering. English. Deadline for application: May. Fees: f. 4,000.

Organizer: International Institute for Hydraulic and Environmental Engineering (IHE)
Postbus 3015
2601 DA Delft, Netherlands
Community water supply and sanitation


Organizer: Water, Engineering and Development Centre (WEDC) Loughborough University of Technology Loughborough, Leicestershire LE11 3TU, United Kingdom

Environmental management for development planning


Organizer: Ian MacDonald and Associates Limited 36 Robertson Road Brighton, East Sussex BN1 5NL, United Kingdom

Environmental problems

Short description: Overview of all kinds of environmental problems in cities and regions of developing countries, of existing policies and mechanisms for tackling environmental problems in the context of economic development strategies; alert participants to past failures and indicate most promising remedies. Commencing date: July. Duration: 12 weeks. Qualifications: Professional experience. English. Deadline for application: June. Fees: £3,780.

Organizer: Secretary, Development Planning Unit University College London 9 Endsleigh Gardens London WC1H OED, United Kingdom

Project preparation for environmental engineering


Organizer: Water, Engineering and Development Centre (WEDC) Loughborough University of Technology Loughborough, Leicestershire LE11 3TU, United Kingdom

Solid waste and environmental management


Organizer: Water, Engineering and Development Centre (WEDC) Loughborough University of Technology Loughborough, Leicestershire LE11 3TU, United Kingdom
Water and environmental management


Organizer: Water, Engineering and Development Centre (WEDC) Loughborough University of Technology Loughborough, Leicestershire LE11 3TU, United Kingdom

Water and waste engineering


Organizer: Water, Engineering and Development Centre (WEDC) Loughborough University of Technology Loughborough, Leicestershire LE11 3TU, United Kingdom

Industrial design/Design industriel/Diseño industrial

Industrial design

Short description: Experiences of design together with Italian designers. Commencing date: January. Duration: 11 months. Qualifications: English (after the first 4 months, also Italian). Deadline for application: 3 months before commencing date. Fees: Lit 20,000,000.

Organizer: Domus Academy Strada 2, Edificio C2 Milanofiori 20090 Assago (Milano), Italy

Design engineering

Short description: Design and draughting techniques, manufacturing methods, planning project control; design office management within the fields of mechanical, electrical/electronic engineering. Commencing date: To be arranged. Duration: 12 weeks. Qualifications: English. Deadline for application: 1 month before commencing date. Fees: To be arranged.

Organizer: Chattaway (UK) Training Services Pool Chambers 26 Dam Street Lichfield, Staffordshire WS13 6AA, United Kingdom

Industrial information and documentation/Information et documentation industrielles/Información y documentación industriales

Production-management information systems

Short description: Analysis, design and implementation of production-management information systems. Commencing date: August. Duration: 6 weeks. Qualifications:
English. **Deadline for application:** 3 months before commencing date. **Fees:** $US 200.

**Organizer:** Asian Productivity Organization
8-4-14, Akasaka, Minato-ku
Tokyo 107, Japan

**Bibliographic Information on Development**

**Short description:** For professional library personnel from developing countries involved in the management and development of library services. **Commencing date:** August. **Duration:** 3 weeks. **Qualifications:** English. **Deadline for application:** —. **Fees:** £1,665.

**Organizer:** Institute of Development Studies
University of Sussex
Brighton BN1 9RE, United Kingdom

**Printing management and Information Technology**

**Short description:** Use of computers, telecommunications and reprographics to produce print-on-paper. **Commencing date:** July. **Duration:** 10 weeks. **Qualifications:** English. **Deadline for application:** 8 weeks before commencing date. **Fees:** Approximately £4,200.

**Organizer:** Royal Institute of Public Administration
International Services
Regent's College
Inner Circle
Regent's Park
London NW1 4NS, United Kingdom

**Statistics for Development Policy**

**Short description:** For producers and users of statistical data. **Commencing date:** April. **Duration:** 3 months. **Qualifications:** English. **Deadline for application:** —. **Fees:** £7,460.

**Organizer:** Institute of Development Studies
University of Sussex
Brighton BN1 9RE, United Kingdom

**Economic Concepts for Statisticians**

**Short description:** Basics of an integrated statistical system: data dissemination, industrial classification (ISIC), surveys of household industries, survey and census design, microcomputer applications. **Commencing date:** September. **Duration:** 3 months. **Qualifications:** English. **Deadline for application:** 2 months before commencing date. **Fees:** $US 6,070.

**Organizer:** Training Branch
International Statistical Programs Center
Bureau of the Census
Washington, D.C. 20233, United States of America

**Economic Statisticians**

**Short description:** Tools needed to design and implement economic surveys; frame development, questionnaire and table design, editing, coding and imputation. **Commencing**
Information technology


Organizer: University of Wisconsin-Milwaukee
School of Library and Information Science
Enderis Hall
P.O. Box 413
Milwaukee, WI 53201, United States of America

Library automation


Organizer: University of Wisconsin-Milwaukee
School of Library and Information Science
Enderis Hall
P.O. Box 413
Milwaukee, WI 53201, United States of America

Microcomputers for Information resources management


Organizer: University of Wisconsin-Milwaukee
School of Library and Information Science
Enderis Hall
P.O. Box 413
Milwaukee, WI 53201, United States of America

Online information retrieval

Short description: Organizational, operational and developmental aspects of online database services, including an overview of the online community. Commencing date: June. Duration: 8 weeks. Qualifications: English. Deadline for application: May. Fees: $US 1,700.

Organizer: University of Wisconsin-Milwaukee
School of Library and Information Science
Enderis Hall
P.O. Box 413
Milwaukee, WI 53201, United States of America
Theory and applications of management in economic statistical activities


Organizer: Training Branch
International Statistical Programs Center
Bureau of the Census
Washington, D.C. 20233, United States of America

Industrial planning and programming/
Planification et programmation industrielles/
Planeamiento y programación industrial

Regional development


Organizer: International Development Ireland Ltd.
P.O. Box 15
Industry Support Centre
Shannon Free Zone
Shannon, Co. Clare, Ireland

Venue: Shannon, Co. Clare, Ireland

Industrial planning and development

Short description: Macroeconomic and sectoral planning and development; field trip; discussion of the participants' reports. Commencing date: April. Duration: 4 weeks. Qualifications: Senior officials responsible for industrial planning and development; university degree with 3 years of working experience. English. Deadline for application: February. Fees: —.

Organizer: International Development Center of Japan (IDCJ)
Kyofuku Bldg., 9-11, Tomioka 2-chome, Koto-ku
Tokyo 135, Japan

Industrial estates and complexes

Short description: Management and planning aspects of industrial estates and complex development. Personalized introductions on development planning of industry and infrastructure, physical planning, location aspects, environmental planning, investment and costs, lay-out development, optimization. Programme includes further self study of selected literature and field observations. Commencing date: To be arranged. Duration: 8-13 weeks. Qualifications: University degree in engineering, economics or business administration, preferably with experience in industry. English. Deadline for application: —. Fees: To be arranged.

Organizer: Centre for Management and Industrial Development (CBO)
Exchange Building
P.O. Box 21468
3001 AL Rotterdam, Netherlands

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Micro-economic policy analysis and information systems

**Short description:** Micro-economic theoretical analysis, micro-economic policy analysis, economic organizations and the role of the state, accounting at firm sector and national level, transition topics (privatization, emerging capital markets). **Commencing date:** February. **Duration:** 6 weeks. **Qualifications:** Degree in economics. English. **Deadline for application:** 4 months before commencing date. **Fees:** £9,000.

**Organizer:** Erasmus University, Rotterdam (EUR)
Growth Dynamics University Institute
Faculty of Economic Sciences
Burgemeester Oudlaan 50, UB 47
P.O. Box 1738
3000 DR Rotterdam, Netherlands

National planning, accounting and statistics

**Short description:** Applied use of macro models, sector planning, input/output, social accounting, project analysis, public finance; computer training; workshop and paper on policy modelling. **Commencing date:** September. **Duration:** 13 weeks. **Qualifications:** Degree in economics, statistics, management, engineering or related field. English. **Deadline for application:** May. **Fees:** £15,000.

**Organizer:** Erasmus University, Rotterdam (EUR)
Growth Dynamics University Institute
Faculty of Economic Sciences
Burgemeester Oudlaan 50, UB 47
P.O. Box 1738
3000 DR Rotterdam, Netherlands

Community technology for rural development

**Short description:** Integrated rural development, water supply, sanitation, roads, transport, power, building. **Commencing date:** October. **Duration:** 12 weeks. **Qualifications:** Professional experience. English. **Deadline for application:** —. **Fees:** £5,950.

**Organizer:** Water, Engineering and Development Centre (WEDC)
Loughborough University of Technology
Loughborough, Leicestershire LE11 3TU, United Kingdom

Industrial development planning—strategic and local policy

**Short description:** Equip local authorities of least developed countries and appropriate national ministries and agencies to formulate and implement more effective policies. **Commencing date:** January. **Duration:** 12 weeks. **Qualifications:** Professional qualifications. English. **Deadline for application:** 1 month before commencing date. **Fees:** £3,780.

**Organizer:** Development Planning Unit
University College London
9 Endsleigh Gardens
London WC1H OED, United Kingdom

Industrial development policy

**Short description:** Detailed examination of all restrictions in developing countries on (a) the expansion and diversification of manufacturing output and (b) the expansion of manufactured exports; issues of employment, training, gender and the environment.
Commencing date: January. Duration: 3 months. Qualifications: English. Deadline for application: 1 month before commencing date. Fees: Approximately £3,780.

Organizer: Development Planning Unit
University College London
9 Endsleigh Gardens
London WC1H OED, United Kingdom

Planning with women for development

Short description: Assist officials involved in the planning of low-income communities, to increase their capacity to relate public intention to performance, in the design, implementation and management of policies, programmes and projects; gender-aware approach in urban planning. Commencing date: April. Duration: 3 months. Qualifications: English. Deadline for application: 1 week before commencing date. Fees: Approximately £3,780.

Organizer: Development Planning Unit
University College London
9 Endsleigh Gardens
London WC1H OED, United Kingdom

Rural research and rural policy


Organizer: Institute of Development Studies
University of Sussex
Brighton BN1 9RE, United Kingdom

Urban traffic and transport policy and planning

Short description: Relevance of existing methods of traffic and transport planning in developing countries; identify those aspects of professional practice which require endorsement, modification or innovation. Commencing date: April. Duration: 3 months. Qualifications: English. Deadline for application: 1 week before commencing date. Fees: Approximately £3,780.

Organizer: Development Planning Unit
University College London
9 Endsleigh Gardens
London WC1H OED, United Kingdom

Investment promotion and industrial financing/
Promotion des investissements et financement industriel/
Promoción de las inversiones y financiación industrial

International promotion and foreign investment

Short description: Market research; market penetration; international trade promotion; exportation means and techniques; international distribution; export finance and pricing; foreign investment. Commencing date: To be arranged. Duration: 3 months. Qualifications: University degree. English, French. Deadline for application: ___. Fees: BF 50,000-70,000 per month.
Projet industriels


Organisateur : Bureau d'ingénieurs-conseils Cadic-Gombert SA
123a, chaussée de Charleroi, boîte 7
1060 Bruxelles, Belgique

Industrial project cycle

Short description. Computer applications; national, regional and sectoral planning; project development cycle: market; technical and financial analysis; socio-economic appraisal; industrial project planning; implementation management; computer-assisted feasibility studies; assignment on computer application to own project; reporting at (pre)feasibility level. Commencing date: January. Duration: 13 weeks. Qualifications. Degree in business administration, economics or related science. English. Deadline for application: 4 months before commencing date. Fees: f. 15,500.

Organizer: Netherlands International Institute for Management (RVB)
Executive Programmes
Endepolstdom ein 150
P.O. Box 1203
6201 BE Maastricht, Netherlands

Financial management


Organizer: Crown Agents
Manpower Development Services
St. Nicholas House
Sutton, Surrey SM1 1EL, United Kingdom

Venue: Crown Agents
Management Training Centre
310 Marine Parade
Worthing, Sussex, United Kingdom

Financial management in government

Short description. For senior administrative and professional officers who have responsibility for policy formulation. Commencing date: April. Duration: 12 weeks. Qualifications: English. Deadline for application: 8 weeks before commencing date. Fees: Approximately £5,000.
Housing project design and evaluation

Short description: Provide the concepts and techniques necessary for the design, implementation, management and evaluation of housing projects and programmes. Commencing date: April. Duration: 3 months. Qualifications: English. Deadline for application: 1 week before commencing date. Fees: Approximately £3,780.

Organizer: Development Planning Unit
University College London
9 Endsleigh Gardens
London WC1H OED, United Kingdom

Loan administration


Organizer: Royal Institute of Public Administration
International Services
Regent's College
Inner Circle
Regent's Park
London NWI 4NS, United Kingdom

Managing complex projects


Organizer: Price Waterhouse Urwick
Milton Gate
1 Moor Lane
London EC2Y 9PB, United Kingdom

Project management


Organizer: Royal Institute of Public Administration
International Services
Regent's College
Inner Circle
Regent's Park
London NWI 4NS, United Kingdom
Maintenance and repair/Entretien et réparation/
Mantenimiento y reparación

Maintenance industrielle


Organisateur : DGS International SA
Jubileumlaan 75
9000 Gand, Belgique

Maintenance industrielle


Organisateur : CODIFOR
13, rue Blaise Pascal
54320 Nancy Maxéville, France

Maintenance and repair of Instruments

Short description: Repair and maintenance work in several service laboratories specialized in various types of instruments. Commencing date: January. Duration: 6 months. Qualifications: Degree in electronic engineering; at least 3 years of experience. English. Deadline for application: September. Fees: $US 3,500 per week (including accommodation and board).

Organizer: MTA/MMSZ
P.O. Box 58
Szakasits A.-ut. 59-61
1502 Budapest, Hungary

Venue: TESCO
P.O. Box 5/101
Rosenberg utca 21
1367 Budapest, Hungary

Maintenance of biomedical equipment

Short description: Maintenance of X ray, electromedical and electromechanical equipment. Commencing date: April. Duration: 1 month Qualifications: Bachelor’s degree in electrical or electronics engineering, or 5 years of experience in a relevant field. English. Deadline for application: January. Fees: To be arranged

Organizer: MEDICOR Training Centre
P.O. Box 150
1189 Budapest, Hungary
Management of maintenance in industrial plants

Short description: For personnel with technical or managerial responsibilities for the operation and control of maintenance activities in industrial plants. Basic study of Italian language included in programme. Commencing date: May. Duration: 7 months. Qualifications: Degree or diploma in any technical field. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: Istituto Culturale Italiano (ICI)  
P.O. Box 91  
S. Benedetto Tr. (Ap.), Italy

Maintenance

Short description: Machine maintenance, bearings, lubricating oils and greases, cleaning and finishing metals, machining processes, welding and soldering, all kinds of engines; mathematics and statistics, organization. Commencing date: January, August. Duration: 16 weeks. Qualifications: Degree from a technical college or equivalent. English. Deadline for application: 4 months before commencing date. Fees: To be arranged.

Organizer: International Institute for Technology and Management (IITM)  
Ariensplein 3  
P.O. Box 1075  
7500 BB Enschede, Netherlands

Corrosion monitoring and inspection in industry

Short description: Industrial corrosion problems, ramifications, economic penalties; making a case to management; methods and techniques available; integrated system; management of system; data reporting; incorporation of program in overall plant management system; inspection methods; intrinsic safety; failure analysis; case studies; database; standard. Commencing date: To be arranged. Duration: To be arranged. Qualifications: Technical qualification. English. Deadline for application: To be arranged. Fees: To be arranged.

Organizer: Corrosion Monitoring Consultancy (CMC)  
5 Old School Gardens  
School Lane, Eaton Socon  
St. Neots, Cambridgeshire PE19 3JB, United Kingdom

Industrial corrosion and control

Short description: Corrosion basics; industrial economic penalties; forms of corrosion; metallurgy; control methods (design, material selection, environmental control, inhibitors, cathodic and anodic protection, coatings); failure analysis; standards and recommended practices; databases including computer; case studies. Commencing date: To be arranged. Duration: To be arranged. Qualifications: Technical qualification. English. Deadline for application: To be arranged. Fees: To be arranged.

Organizer: Corrosion Monitoring Consultancy (CMC)  
5, Old School Gardens  
School Lane, Eaton Socon  
St. Neots, Cambridgeshire PE19 3JB, United Kingdom

Maintenance and repair of laboratory equipment

Short description: Maintenance and repair of: general laboratory equipment, electrical systems, electronic instrumentation, chemical instrumentation. Optional support
modules include: instrument development projects, electronics, instrument systems, computing, special subjects. **Commencing date:** February, September. **Duration:** 5 months. **Qualifications:** 5 years of relevant experience. English. **Deadline for application:** 1 month before commencing date. **Fees:** To be arranged.

**Organizer:**
CTSE
Department of Science
Bristol Polytechnic
Frenchay
Bristol BS16 1QY, United Kingdom

**Maintenance and repair of light and heavy automotive vehicles**

**Short description:** Theoretical instruction and practical work in the repair and maintenance of a wide range of automotive vehicles. **Commencing date:** To be arranged. **Duration:** 2 weeks-1 year. **Qualifications:** Professional qualifications. English. **Deadline for application:** —. **Fees:** To be arranged.

**Organizer:**
Teesside Transport Training Association
Cargo Fleet Lane
Middlesbrough, Cleveland, United Kingdom

**Mechanical and electrical maintenance**

**Short description:** Practical training in the maintenance of electrical and mechanical machines and equipment. **Commencing date:** February, August. **Duration:** 13 weeks. **Qualifications:** English. **Deadline for application:** —. **Fees:** To be arranged.

**Organizer:**
METCOM Training
Savoy Tower
77 Renfrew Street
Glasgow G2 3BZ, Scotland, United Kingdom

**Management and industrial administration/**
**Gestion et administration industrielle/**
**Gestión y administración industrial**

**Human resources development (HRD) for managers from developing countries**

**Short description:** The importance of HRD in the organization: basic concepts underlying HRD in industry; elements of an HRD programme: establishment of the HRD function. **Commencing date:** February. **Duration:** 2-3 weeks. **Qualifications:** Top managers or managers responsible for HRD. English. **Deadline for application:** 6 weeks before commencing date. **Fees:** $US 5,000 (including accommodation, board, local travel and all materials).

**Organizer:**
Human Resources Development International
Hofzeile 3/14
1190 Vienna, Austria

**Conseiller opérationnel en gestion**

**Brève description:** Économie, comptabilité générale, diagnostic de l’entreprise, comptabilité analytique d’exploitation, gestion financière, gestion informatisée, organisation commerciale, droit des entreprises. **Début du cours :** À arranger. **Durée :** 3 mois.
Qualifications : Français. Date limite d'inscription : —. Droits d'inscription : A arranger.

Organisateur : Institut des affaires publiques et le Centre
interuniversitaire de formation permanente
1b, avenue Général Michel
6000 Charleroi, Belgique

Diagnostics d'entreprises ou de départements

Brève description : Diagnostics généraux d'entreprises, de départements ou de services :

Organisateur : Helping SA
38, avenue Montjoie
1180 Bruxelles, Belgique

Gestion des entreprises


Organisateur : Bureau d'ingénieurs-conseils Cadic-Gombert SA
123a, chaussée de Charleroi, boîte 7
1060 Bruxelles, Belgique

Gestion des ressources humaines


Organisateur : Helping SA
38, avenue Montjoie
1180 Bruxelles, Belgique

Gestion des ressources humaines de l'entreprise

Organisateur : Bureau d’ingénieurs-conseils Cadic-Gombert SA
123a, chaussée de Charleroi, boîte 7
1060 Bruxelles, Belgique

Gestion économique


Organisateur : Centre d’études et de recherches de l’Institut supérieur industriel catholique du Hainaut (CERISCASBL)
22, avenue de l’Hôpital
7000 Mons, Belgique

Organisation et gestion des entreprises


Organisateur : Bureau d’ingénieurs-conseils Cadic-Gombert SA
123a, chaussée de Charleroi, boîte 7
1060 Bruxelles, Belgique

Seminaros y visitas para dirigentes de centros de perfeccionamiento en gestión de América Latina


Organizadores: Fonds Léon A. Bekaert a.s.b.l.
26, rue de la Lou
Boîte 12
1040 Bruxelles, Belgique

General management in Czechoslovakia, Hungary, Poland and the Soviet Union

Short description: Introduction to modern management tools, with focus on marketing, financing and personal development as well as management of change in an evolutionary world. Commencing date. To be arranged. Duration: 20 days. Qualifications,
German, Russian. Deadline for application: —. Fees: DM 450 per day (including accommodation).

Organizer: Deutsche Management Akademie Niedersachsen GmbH
Welfenallee 32
3100 Celle, Germany

Technology and development

Short description: Management training for engineers from developing countries, preparing them for return to their home countries after having completed their university degrees in Germany. Commencing date: January. Duration: 12 months. Qualifications: Degree from a German university. Deadline for application: September. Fees: —.

Organizer: Technical University Berlin
Center for Technological Cooperation
Strasse des 17. Juni 135
1000 Berlin 10, Germany

Building market-led organizations


Organizer: Irish Management Institute (IMI)
Sandyford Road
Dublin 16, Ireland

Chief executive programme

Short description: Strategy development; organizational behaviour; strategic management in the following functional areas: marketing; finance and accounting; operations; personnel and a range of personal skills, including the use of computers. Commencing date: April. Duration: 6 weeks. Qualifications: Chief executives/general managers of private, cooperative or parastatal organizations. English. Deadline for application: February. Fees: £1r 6,750 (including meals and accommodation).

Organizer: Irish Management Institute (IMI)
Sandyford Road
Dublin 16, Ireland

Competitive banking management


Organizer: DEVC0
Elm House
Clanwilliam Court
Lower Mount Street
Dublin 2, Ireland

Management development

Short description. Business strategy, marketing, finance and accounting, operations, managing people at work, personnel and personal skills. Commencing date: September.
**Management training**


**Effective problem solving for production managers**


**Integrated productivity improvement**


**Plant operations management**


**Technology management**

*Short description:* Selection, assimilation, diffusion and use of technology in business and industrial enterprises. *Commencing date:* To be arranged. *Duration:* 3 weeks.
Qualifications: English. Deadline for application: 3 months before commencing date. Fees: SUS 100.

Organizer: Asian Productivity Organization
8-4-14, Akasaka, Minato-ku
Tokyo 107, Japan

Advanced consultancy skills


Organizer: Netherlands International Institute for Management (RVB)
Executive Programmes
Endepolsdomein 150
P.O. Box 1203
6201 BE Maastricht, Netherlands

General management for state enterprises

Short description: Defining and analysing managerial problems of state involvement in economic activities; economic and political elements of national decision-making; management of government; introduction to business policy. Commencing date: May. Duration: 13 weeks. Qualifications: Degree in business administration, economics or related science. English. Deadline for application: March. Fees: f. 15,500.

Organizer: Netherlands International Institute for Management (RVB)
Executive Programmes
Endepolsdomein 150
P.O. Box 1203
6201 BE Maastricht, Netherlands

Management and Industrial Development

Short description: Principles of operational management in industry. Personalized introduction to the development of product programme and market potentials, production management, technology development, investment planning and costing, operations research, licensing and international industrial collaboration: includes study of selected literature and field observations. Commencing date: To be arranged. Duration: 8-13 weeks. Qualifications: University degree in engineering, economics or business administration, preferably with experience in industry. English. Deadline for application.

Organizer: Centre for Management and Industrial Development (CBI)
Exchange Building
P.O. Box 3042
3001 AL Rotterdam, Netherlands

Management Development

Short description: Organization and management techniques; logistics; statistics; cost accounting; financing; marketing; economics; computer application; sociology and psychology; managerial aspects of enterprise. Commencing date: January, August. Duration: 16 weeks. Qualifications: Degree from a technical or business college or equivalent. English. Deadline for application: 4 months before commencing date. Fees: To be arranged.
Organizer: International Institute for Technology and Management (IITM)
Ariensplein 3
P.O. Box 1075
7500 BB Enschede, Netherlands

Management for general managers

Short description: Decision-making techniques; environmental scanning; introduction to business policy and strategy management; marketing; finance; manpower policies; organization development; managerial control. Commencing date: January. Duration: 13 weeks. Qualifications: Degree in business administration, economics or related science. English. Deadline for application: 4 months before commencing date. Fees: f. 15,500.

Organizer: Netherlands International Institute for Management (RVB)
Executive Programmes
Eendepolstrijn 150
P.O. Box 1203
6201 BE Maastricht, Netherlands

Managerial control and management information systems

Short description: Managerial control systems; financial control systems design; cost accounting; management information systems; design and implementation; computer hardware and software; decision support tools; behavioural aspects; practical assignments and reporting. Commencing date: May. Duration: 13 weeks. Qualifications: Degree in accounting, economics, business administration or related science. English. Deadline for application: March. Fees: f. 15,500.

Organizer: Netherlands International Institute for Management (RVB)
Executive Programmes
Eendepolstrijn 150
P.O. Box 1203
6201 BE Maastricht, Netherlands

Organizational development and institutional strengthening

Short description: Organizational and institutional analysis, planning for organizational strengthening, implementing and monitoring organizational strengthening and adaptation. Commencing date: March, September. Duration: 3 weeks. Qualifications: —. Deadline for application: 1 month before commencing date. Fees: f. 7,750.

Organizer: Management for Development Foundation (MDF)
Management Courses
Bosrand 28
P.O. Box 430
6710 BK Ede, Netherlands

Project management and programme administration (local counterparts)

Short description: To teach managers and future managers to recognize and define problems, and to find solutions that ensure effective action. Commencing date: January, April, August. Duration: 6-10 weeks. Qualifications: Completed higher education in a relevant discipline. English or French. Deadline for application: 1 month before commencing date. Fees: f. 24,800.
Organizer: Management for Development Foundation (MDF)
Management Courses
Bosrand 28
P.O. Box 430
6710 BK Ede, Netherlands

Sector technology and management

Short description: Production and operations management (joint programme) including innovation, production process and equipment; automation quality control; sector technology and a practical assignment: (a) food processing (agri business system, food processing, raw materials, choice of technology, fieldwork assignment); (b) metal-products manufacturing (metal technology and processing, automation, robotics, choice of technology, fieldwork assignment). Commencing date: January. Duration: 13 weeks. Qualifications: Degree in engineering, business administration or related science. English. Deadline for application: 4 months before commencing date. Fees: f. 15,500.

Organizer: Netherlands International Institute for Management (RVB)
Executive Programmes
Endepolsdomein 150
P.O. Box 1203
6201 BE Maastricht, Netherlands

Advanced logistics management

Short description: Skills and knowledge required to control effectively logistics activities and to ensure that each activity is properly coordinated and integrated so as to optimize organizational efficiency. Commencing date: April. Duration: 12 weeks. Qualifications: Senior managers. English. Deadline for application: 4 weeks before commencing date. Fees: Approximately £8,425

Organizer: Crown Agents
Manpower Development Services
St. Nicholas House
Sutton, Surrey SM1 1EL, United Kingdom

Venue: Crown Agents
Management Training Centre
3-10 Marine Parade
Worthing, Sussex BN11 3PW, United Kingdom

Advance management in government


Organizer: Royal Institute of Public Administration
International Services
Regent's College
Inner Circle
Regent's Park
London NW1 4NS, United Kingdom
Computers in railway management

Short description: A practical course for middle and senior management with little or no previous computer experience. Commencing date: March, November. Duration: 4 weeks. Qualifications: English. Deadline for application: 6 weeks before commencing date. Fees: £4,000.

Organizer: Training Manager
Transmark
169 Westbourne Terrace
London W2 6JY, United Kingdom

Venue: Crewe, United Kingdom

Computerized management techniques

Short description: Theory and practice in computer application to management needs such as planning, marketing, cash control, product organization. Commencing date: To be arranged. Duration: 24 weeks with experience in basic use of computers; 32 weeks with no experience. Qualifications: Mathematical ability together with basic knowledge where possible of the use of spreadsheets; English. Deadline for application: 12 weeks before commencing date. Fees: £370 per week.

Organizer: Providence Group Services
Grainger House
Cradley Road, Five Ways
Cradley Heath
Warley, West Midlands B64 6AG, United Kingdom

Human resource management

Short description: Manpower policies and strategies; employment conditions; industrial/employee relations; recruitment and selection; performance appraisal; records and systems; introduction of new technology; training and development. Commencing date: August. Duration: 12 weeks. Qualifications: Personnel managers/advisers and line managers with responsibility for the development of human resources; English. Deadline for application: 4 weeks before commencing date. Fees: To be arranged.

Organizer: Industrial Training Service Ltd.
International Office
73/75 Mortimer Street
London W1N 8HX, United Kingdom

Infrastructure and facilities management

Short description: To provide skills to managers involved with the maintenance function in facilities, organizations and buildings. Commencing date: July. Duration: 12 weeks. Qualifications: Related working experience; English. Deadline for application: 4 weeks before commencing date. Fees: Approximately £7,475.

Organizer: Crown Agents
Manpower Development Services
St. Nicholas House
Sutton, Surrey SM1 1EL, United Kingdom

Venue: Crown Agents
Management Training Centre
310 Marine Parade
Worthing, Sussex BN11 4PW, United Kingdom
Maintenance management


Organizer: Crown Agents
Manpower Development Services
St. Nicholas House
Sutton, Surrey SM1 1EL, United Kingdom

Venue: Crown Agents
Management Training Centre
3-10 Marine Parade
Worthing, Sussex BN11 3PW, United Kingdom

Management analysis and consultancy skills


Organizer: Royal Institute of Public Administration
International Services
Regent’s College
Inner Circle
Regent’s Park
London NW1 4NS, United Kingdom

Management and administration

Short description: Management and general office administration; personnel administration; health and safety in industry; quality control and inspection; fire precautions; toxic hazards; communications; computers; facsimile; methods of instruction and teaching practice; financial appraisal. Commencing date: To be arranged. Duration: 12 weeks. Qualifications: English. Deadline for application: 1 month before commencing date. Fees: To be arranged.

Organizer: Chattaway (UK) Training Services
Pool Chambers
26 Dam Street
Lichfield, Staffordshire WS13 6AA, United Kingdom

Management and national development


Organizer: Royal Institute of Public Administration
International Services
Regent’s College
Inner Circle
Regent’s Park
London NW1 4NS, United Kingdom
Management development

Short description: Communications: problem solving; leadership; motivation; computer skills; health and safety. Commencing date: January, April, July. Duration: 12 weeks. Qualifications: English. Deadline for application: 4 weeks before commencing date. Fees: £300 per week

Organizer: Teeside Transport Training Association
Cargo Fleet Lane
Middlesbrough, Cleveland, United Kingdom

Management development for women


Organizer: Royal Institute of Public Administration
International Services
Regent’s College
Inner Circle
Regent’s Park
London NW1 4NS, United Kingdom

Management for engineers and scientists

Short description: Management skills and approaches, with emphasis on managing people. Commencing date: July, October. Duration: 3 weeks. Qualifications: English. Deadline for application: 4 weeks before commencing date. Fees: To be arranged.

Organizer: Industrial Training Service Ltd.
International Office
73/75 Mortimer Street
London WIN 8HX, United Kingdom

Management Information Systems

Short description: For executive and administrative managers who have responsibility for determining, evolving and implementing management information systems. Commencing date: February, September. Duration: 12 weeks. Qualifications: English. Deadline for application: 8 weeks before commencing date. Fees: Approximately £7,150.

Organizer: Royal Institute of Public Administration
International Services
Regent’s College
Inner Circle
Regent’s Park
London NW1 4NS, United Kingdom

Management of Production

Short description: To develop a detailed understanding of current production management techniques and best current practice in optimizing the human resource element in production processes, as well as a wide range of intervention techniques appropriate to technical advisers to management. Commencing date: September. Duration: 12 weeks. Qualifications: Production managers and technical advisers. English. Deadline for application: 4 weeks before commencing date. Fees: To be arranged.
Management of public records


Organizer: Royal Institute of Public Administration
International Services
Regent's College
Inner Circle
Regent's Park
London NW1 4NS, United Kingdom

Management of public sector enterprises


Organizer: Royal Institute of Public Administration
International Services
Regent's College
Inner Circle
Regent's Park
London NW1 4NS, United Kingdom

Managing technological change

*Short description:* Introduction and effective implementation of technological change process, with particular emphasis on information technology and management information systems. *Commencing date:* May. *Duration:* 10 weeks. *Qualifications:* Managers responsible for the development and implementation of strategies aimed at applying NT and MIS. English. *Deadline for application:* 4 weeks before commencing date. *Fees:* To be arranged.

Organizer: Industrial Training Service Ltd.
International Office
73/75 Mortimer Street
London WIN 8HX, United Kingdom

Management training and development

*Short description:* Styles of supervision; giving and receiving instruction; developing motivation; grievances and discipline; management of quality. *Commencing date:* To be arranged. *Duration:* 12-36 weeks. *Qualifications:* English. *Deadline for application:* 8 weeks before commencing date. *Fees:* £400 per week.

Organizer: Providence Group Services
Giainger House
Cradley Road, Five Ways
Cradley Heath
Warley, West Midlands B64 6AG, United Kingdom
Manpower budgeting and staff inspection

Short description: To build up knowledge and skills from a foundation of management theory leading to exercising practical skills of staffing and staff inspection. Commencing date: October. Duration: 10 weeks. Qualifications: English. Deadline for application: 8 weeks before commencing date. Fees: Approximately £4,200.

Organizer: Royal Institute of Public Administration
International Services
Regent's College
Inner Circle
Regent's Park
London NW1 4NS, United Kingdom

Personnel management


Organizer: Don Macdonald
Thames Valley College
Business Training Services
Wellington Street
Slough, Berkshire SL1 1YG, United Kingdom

Personnel management


Organizer: Royal Institute of Public Administration
International Services
Regent's College
Inner Circle
Regent's Park
London NW1 4NS, United Kingdom

Procurement and materials management

Short description: For directors and senior managers in the private and public sectors who have or will have involvement in strategic planning in procurement and materials management, and responsibility for the professional development and supervision of middle managers. Commencing date: July. Duration: 4 weeks. Qualifications: English. Deadline for application: 1 month before commencing date. Fees: £4,300.

Organizer: Institute of Purchasing and Supply
Easton House
Easton on the Hill
Stamford, Lincolnshire PE9 3NZ, United Kingdom

Venue: Bournemouth, United Kingdom

Procurement for development projects

Short description: Skills for officers responsible for the management of procurement within major projects. Commencing date: April. Duration: 4 weeks. Qualifications: Relevant

Organizer: Crown Agents
Manpower Development Services
St. Nicholas House
Sutton, Surrey SM1 1EL, United Kingdom

Venue: Crown Agents
Management Training Centre
3-10 Marine Parade
Worthing, Sussex BN11 3PW, United Kingdom

Public sector management


Organizer: Royal Institute of Public Administration
International Services
Regent’s College
Inner Circle
Regent’s Park
London NW1 4NS United Kingdom

Purchasing and materials management

Short description: For middle management and senior personnel with responsibilities for purchasing goods and services, and for management of stores. Commencing date: March, June, September. Duration: 12 weeks. Qualifications: English. Deadline for application: 1 month before commencing date. Fees: £5,850.

Organizer: Institute of Purchasing and Supply
Easton House
Easton on the Hill
Stamford, Lincolnshire PE9 3NZ, United Kingdom

Venue: Bournemouth, United Kingdom

Railway costing and financial management


Organizer: Training Manager
Transmark
169 Westbourne Terrace
London W2 6JY, United Kingdom

Railway operating and commercial management

Senior management

Short description. The practice of management: practical case-study-based programme, designed to extend upon the knowledge held by the participants; for managers moving to a senior appointment. Commencing date: To be arranged. Duration: 3 weeks. Qualifications: Managerial experience. English. Deadline for application: To be arranged. Fees: Approximately £4,000 (fully residential).

Organizer: Training Manager
Transmark
169 Westbourne Terrace
London W2 6JY, United Kingdom

Venue: Crewe and Westbury, United Kingdom

Site management (certificate and diploma)

Short description. Two courses at intermediate and senior level giving practical training in construction management. Commencing date: July (certificate); September (diploma). Duration: 12 weeks (certificate); 10 weeks (diploma). Qualifications: Relevant working experience. English. Deadline for application: 4 weeks before commencing date. Fees: Approximately £7,475.

Organizer: BEI Training Services
16-18 Chequer Street
St. Albans, Hertfordshire AL1 3YD, United Kingdom

Venue: Crown Agents
Management Training Centre
3-10 Marine Parade
Worthing, Sussex BN11 3PW, United Kingdom

Strategic management in railways


Organizer: Training Manager
Transmark
169 Westbourne Terrace
London W2 6JY, United Kingdom

Venue: Bath, United Kingdom

Supervisory management in stores and purchasing

Short description. For personnel who have or will have supervisory responsibilities in the fields of purchasing goods and services and of management of stock. Commencing date: September. Duration: 12 weeks. Qualifications: English. Deadline for application: 1 month before commencing date. Fees: £5,850.

Organizer: Institute of Purchasing and Supply
Easton House
Easton on the Hill
Stamford, Lincolnshire PE9 3EZ, United Kingdom

Venue: Bournemouth, United Kingdom
Supply and materials management

Short description: Expand the skills of senior and middle managers in developing supply systems and procedures. Commencing date: March, July, September. Duration: 12 weeks. Qualifications: Relevant working experience. English. Deadline for application: 4 weeks before commencing date. Fees: To be arranged.

Organizer: Crown Agents
Manpower Development Services
St. Nicholas House
Sutton, Surrey SM1 1EL, United Kingdom

Venue: Crown Agents
Management Training Centre
3-10 Marine Parade
Worthing, Sussex BN11 3PW, United Kingdom

Women managers in technology for development


Organizer: Water, Engineering and Development Centre (WEDC)
Loughborough University of Technology
Loughborough, Leicestershire LE11 3TU, United Kingdom

Work-study practitioners

Short description: Work measurement, method study and systems improvement, organizational effectiveness. Commencing date: Throughout the year. Duration: 30 days. Qualifications: English. Deadline for application: —. Fees: To be arranged.

Organizer: Fielden House Ltd.
Mersey Road
West Didsbury
Manchester M20 8QA, United Kingdom

Marketing and export promotion/Marketing et promotion des exportations/Comercialización y promoción de las exportaciones

Zones franches et développement


Organisateur: Havenbedrijf van de Stad Antwerpen
Stadhuis
2000 Anvers, Belgique
Export processing zones/industrial free zones

Short description: First-hand insight into the development and operation of an export processing zone; the needs of a free zone and the role it can play as a catalyst in national and regional development; assess the potential of such zones for participants' own countries. Visit to large Irish and overseas companies, small start-up companies, community enterprises and centres of training and education. Commencing date: May. Duration: 5 weeks. Qualifications: English. Deadline for application: April. Fees: £1r 7,200.

Organizer: International Development Ireland Ltd.
P.O. Box 15
Industry Support Centre
Shannon Free Zone
Shannon, Co. Clare, Ireland

Export promotion

Short description: International marketing and export-promotion techniques with particular reference to Europe, for officials and entrepreneurs from developing countries. Commencing date: To be arranged. Duration: 2 months. Qualifications: English, French or Spanish according to the selected region. Deadline for application: —. Fees: —.

Organizer: Italian Institute for Foreign Trade (ICE)
Uff. FORM/EST
Via Liszt, 21
00144 Rome, Italy

EXPRO course

Short description: International marketing: export marketing; quality management; export promotion; product adaptation; costing and pricing; budgeting; packaging; distribution; organization of an export department. Commencing date: November. Duration: 3 weeks. Qualifications: Bachelor's degree in economics, marketing, science, or any other relevant degree. English. Deadline for application: June. Fees: —.

Organizer: Centre for the Promotion of Imports from Developing Countries CBI
International Projects and Training Section
Beursgebouw, 5th floor, Beursplein 37
P.O. Box 30009
3001 DA Rotterdam, Netherlands

International business


Organizer: Nijenrode, The Netherlands School of Business International Affairs
Straatweg 25
3621 BG Breukelen, Netherlands

Marketing and export-trade development

Short description: Development of the marketing function, with special emphasis on export-trade development. Personalized introductions on market analysis, international
trade relations, quality assurance, marketing, pricing and costing; study of selected literature and market documentations. Commencing date: To be arranged. Duration: 8-13 weeks. Qualifications: University degree in engineering, economics or business administration, preferably with experience in industry. English. Deadline for application: —. Fees: To be arranged.

Organizer: Centre for Management and Industrial Development (CBO)
Exchange Building
P.O. Box 21458
3001 AL Rotterdam, Netherlands

Marketing development

Short description: Marketing: basic principles of marketing, industrial marketing, export and international marketing, marketing research and planning; organization and management; financial control; cost accounting; social skills; negotiating techniques. Commencing date: January, August. Duration: 16 weeks. Qualifications: Diploma from a business college or equivalent. English. Deadline for application: 4 months before commencing date. Fees: To be arranged.

Organizer: International Institute for Technology and Management (IITM)
Ariensplein 3
P.O. Box 1075
7500 BB Enschede, Netherlands

Marketing management and physical distribution

Short description: Marketing concepts; marketing management; product analysis and development; marketing research; finance for marketing; physical distribution; practical assignment and reporting. Commencing date: May. Duration: 13 weeks. Qualifications: Degree in business administration, economics or related science. English. Deadline for application: March. Fees: f. 15,500.

Organizer: Netherlands International Institute for Management (RVB)
Executive Programmes
Endepolsdomein 150
P.O. Box 1203
6201 BE Maastricht, Netherlands

Matchmaker course

Short description: The European Community; export marketing; quality management; partner selection; packaging; distribution; data collection; effective trade preparation; trade promotion and publicity. Commencing date: March. Duration: 3 weeks. Qualifications: University degree in economics, marketing, science, or any other relevant degree; engaged in trade-promotional activities. English. Deadline for application: 3 months before commencing date. Fees: —.

Organizer: Centre for the Promotion of Imports from Developing Countries CBI
International Projects and Training Section
Beursgebouw, 5th floor, Beursplein 37
P.O. Box 30009
3001 DA Rotterdam, Netherlands

Marketing and marketing management

Short description: Marketing and corporate objectives; the importance of the customer; market research; marketing plan; total marketing mix; distribution and the role of the
wholesaler; sales management and incentives; public relations; export marketing.

**Commencing date:** To be arranged. **Duration:** 12 weeks. **Qualifications:** Responsibilities within the marketing function. English. **Deadline for application:** 1 month before commencing date. **Fees:** To be arranged.

**Organizer:** Strategic Marketing Services
P.O. Box 37
Lichfield, Staffordshire WS13 8LW, United Kingdom

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**Marketing and marketing management**

**Short description:** From marketing mix to technical sales operation; marketing in the overall corporate strategy; marketing plans, market research, product development, advertising, forecasting, budgets and financial control; managing the sales operation to achieve projected plans; setting up new businesses; study tours; computer use. **Commencing date:** To be arranged. **Duration:** 12 weeks. **Qualifications:** Relevant working experience. English. **Deadline for application:** 1 month before commencing date. **Fees:** To be arranged.

**Organizer:** Chattaway (UK) Training Services
Pool Chambers
26 Dam Street
Lichfield, Staffordshire WS13 6AA, United Kingdom

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**Marketing management**

**Short description:** Advanced business education experience and skills to meet challenges of the 90s; global perspective series, international business simulation, classroom-boardroom cooperatives and business curriculum. **Commencing date:** To be arranged. **Duration:** 4 weeks. **Qualifications:** 5 years of business experience. English. **Deadline for application:** 2 weeks before commencing date. **Fees:** $US 9,865 (including meals and board).

**Organizer:** Operations Manager
International Marketing Institute
Admissions Committee
314 Hammond Street, Suite 52
Chestnut Hill, MA 02167, United States of America

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**Occupational safety/Prévention des accidents du travail/Seguridad profesional**

**Risk management**

**Short description:** Identification and evaluation of risks arising for a company through all production processes to distribution. **Commencing date:** August, October. **Duration:** 4 weeks. **Qualifications:** English. **Deadline for application:** 1 month before commencing date. **Fees:** Approximately £2,665

**Organizer:**
International Training Marketing Manager
British Safety Council
National Safety Centre
Chancellors Road
London W6 9RS, United Kingdom
Safety management

Short description: In-depth practical knowledge of how to prevent costly damage to plant, tools and materials; reducing injury and accidents and their effects on workforce productivity and morale. Commencing date: June, August. Duration: 10 weeks. Qualifications: English. Deadline for application: 1 month before commencing date. Fees: Approximately £4,545.

Organizer: International Training Marketing Manager
British Safety Council
National Safety Centre
Chancellors Road
London W6 9RS, United Kingdom

Safety and disaster management

Short description: Introduction to practical and theoretical methods the host organization uses to ensure safe working practices; includes planning for major emergencies. Commencing date: May. Duration: 3 weeks. Qualifications: Graduate engineers or experienced safety managers. English. Deadline for application: 3 weeks before commencing date. Fees: To be arranged.

Organizer: Training Manager
ICI Chemicals and Polymers Ltd.
Process Plant Services
P.O. Box 1
Billingham, Cleveland TS23 1L3, United Kingdom

Quality control and standardization/Contrôle de la qualité et normalisation/Control de calidad y normalización

Normalisation

Brève description: : Examen de la loi de base en matière de normalisation ainsi que des règles pour l’élaboration des normes; collaboration avec les institutions spécialisées, notamment le Comité électronique belge; visite du laboratoire qui octroie la marque CEBEC; organisation des services techniques; création et fonctionnement des commissions, missions des comités de coordination technique, travaux internationaux (ISO, CEN, CENELEC, CECA), marque de conformité. Visite au Comité européen de normalisation; visite des services d’exécution de l’IBN; questions d’intérêt général : construction, feu, sécurité, éclairage, fabrications métalliques, soudure, énergie nucléaire, gaz naturel, transport, papiers et cartons; centre d’information de l’IBN. Début du cours : A arranger. Durée : —. Qualifications : Niveau universitaire. Français. Date limite d’inscription : —. Droits d’inscription : A arranger

Organisateur : Institut belge de normalisation (IBN)
29, avenue de la Brabançonne
1040 Bruxelles, Belgique

Quality systems: Installation, auditing and improvement

Short Description: Quality control systems; quality function; sampling and inspection; auditing and evaluation; motivation and improvement programmes; problem-solving techniques; quality requirements for export. Commencing date: March, September. Duration: 13 weeks. Qualifications: Bachelor’s degree or equivalent in a relevant field of study. English. Deadline for application: January, July. Fees: f. 15,500.
Statistical quality control: a computer-oriented approach

_short description:_ Aspects of computer use; flow diagrams for statistical analysis; probability; sampling; tests of significance, control charts; analysis of variance; correlation and regression; excursions. **Commencing date:** March, September. **Duration:** 13 weeks. **Qualifications:** Bachelor's degree or equivalent in a relevant field of study. **English. Deadline for application:** January, July. **Fees:** f. 15,500.

Organizer: International Centre for Quality and Management Sciences (ICQMS)
's-Gravendijkwal 10
P.O. Box 2082
3000 CB Rotterdam, Netherlands

Total quality control

_short description:_ Modern concepts of total quality control; customer service; inspection and acceptance sampling; process control; organization; planning; motivation; improvement; training period in relevant enterprises. **Commencing date:** March, September. **Duration:** 13 weeks. **Qualifications:** Bachelor's degree in economics, engineering, science or statistics. **English. Deadline for application:** January, July. **Fees:** f. 15,500.

Organizer: International Centre for Quality and Management Sciences (ICQMS)
's-Gravendijkwal 10
P.O. Box 2082
3000 CB Rotterdam, Netherlands

Non-destructive testing

_short description:_ Technical and organizational methods of evaluation of the state, quality and reliability of industrial objects (pressure vessels, pipelines, installations, whole plants). **Commencing date:** June. **Duration:** 2 months. **Qualifications:** Engineers. **English. Deadline for application:** February. **Fees:** To be arranged.

Organizer: Institute of Atomic Energy
Department E-V
05-400 Swierk
Warsaw, Poland

Materials testing for quality control

_short description:_ Strength of materials; properties; application of standards; non-destructive testing; quality assurance; laboratory testing techniques. **Commencing date:** May, November. **Duration:** 3-12 weeks (with optional modules). **Qualifications:** Work experience or engineering graduate. **English. Deadline for application:** 6 weeks before commencing date. **Fees:** £1,850.

Organizer: British Centre for Engineering and Scientific Training
Brooklands Close
Windmill Road
Sunbury-on-Thames, Middlesex TW16 7DX, United Kingdom
Non-destructive testing

Short description: Practice and theory of visual inspection; penetrant; magnetic particle; Eddy current; ultrasonic and radiographic methods of non-destructive testing; evaluation of welded structures, castings and forgings. Commencing date: January, April, September. Duration: 10 weeks. Qualifications: Relevant industrial experience. English. Deadline for application: —. Fees: £3,000.

Organizer: W. McEwan OBE
Paisley College Quality Centre
Paisley College
High Street
Paisley PA1 2BE, Renfrewshire, Scotland, United Kingdom

Small-scale industries and entrepreneurship/Petites industries et entrepreneurs/Pequeñas industrias y los empresarios

Formation de formateurs à la création et au développement des PME des organismes d'appui à la PME

Brève description : Mise au point avec les demandeurs de programmes "sur mesure": analyse d’expériences replacées dans leur contexte; évaluation des expériences présentées; mise au point d’un projet, résultat concret de la participation au programme. Début du cours : A arranger. Durée : 15-30 jours. Qualifications : Cadres en charge de dossiers de financement, d’installation de PME, de mise au point de politiques commerciales, de structure d’appui à la PME. Français. Date limite d'inscription : Mars. Droits d’inscription : A arranger.

Organisateur : Fonds Léon A. Bekker a.s.b.l.
26, rue de la Loi
Boîte 12
1040 Bruxelles, Belgique

Entrepreneur development

Short description: Classroom sessions covering essential business concepts for effective management and practical exposure through attachments at relevant firms, on-site observation, visits to trade fairs and exhibitions, business meetings with entrepreneurs and discussions with representatives of trade associations and chambers of commerce. Commencing date: September. Duration: 8 weeks. Qualifications: Professional qualifications. English. Deadline for application: May. Fees: To be arranged.

Organizer: International Training and Contact (ITC)
Velodroomstraat 68
2600 Antwerp, Belgium

Small-scale production of ceramics


Organizer: UNIDO-Czechoslovakia Joint Programme for Cooperation
Non metallic Industries
Pražská 12
305 11 Plzeň, Czechoslovakia
Development of small-scale rural industries

Short description: Production technologies: appropriate and/or advanced technologies depending on the client's particular needs; quality control; drawing and design; cost accounting and product pricing; marketing; management. Commencing date: April. Duration: 13 weeks. Qualifications: Bachelor of science, workshop manager, or several years of relevant experience. English. Deadline for application: February. Fees: DM 11,835 (including study materials, protective clothing, study tours).

Organizer: Deutsche Lehranstalt für Agrartechnik
Bartningstr. 49
6100 Darmstadt, Germany

Credit appraisal for small and medium industries


Organizer: Asian Productivity Organization
8-4-14, Akasaka, Minato-ku
Tokyo 107, Japan

Management consultancy

Short description: To upgrade the skills of consultants in rendering management consultancy services to small and medium industries, and to enable them to specialize in either production management or marketing and distribution. Commencing date: September. Duration: 8 weeks. Qualifications: English. Deadline for application: 3 months before commencing date. Fees: $US 200.

Organizer: Asian Productivity Organization
8-4-14, Akasaka, Minato-ku
Tokyo 107, Japan

Energy management in small and medium-scale industries

Short description: Technology options in production processes: energy utilization and need assessment; energy control and conservation techniques; energy planning and supply options; energy auditing; economic aspects of energy; management dimensions; policy aspects of energy in small and medium-sized industries. Commencing date: October. Duration: 5 weeks. Qualifications: Bachelor's degree or equivalent in a relevant subject. English. Deadline for application: July. Fees: £ 10,000.
Financial management

Short description: Cost and financial accounting; reporting; accounting systems; financial ratios; working capital management; investment appraisal and capital budgeting; financial markets in developing countries; financial planning; practical assignments and reporting. Commencing date: September. Duration: 13 weeks. Qualifications: Degree in accounting, economics, business administration or related science. English. Deadline for application: June. Fees: f. 15,500.

Organizer: Netherlands International Institute for Management (RVB)
Executive Programmes
Endepolsdomein 150
P.O. Box 1203
6201 BE Maastricht, Netherlands

Financing small enterprises

Short description: The importance of a client-oriented approach and the requirements of small entrepreneurs; the role of the credit extension officer within the organization; management aspects of credit extension. Commencing date: January, October. Duration: 5 weeks. Qualifications: Completed higher education in a relevant discipline. English. Deadline for application: 1 month before commencing date. Fees: f. 12,500.

Organizer: Management for Development Foundation (MDF)
Management Courses
Bosrand 28
P.O. Box 430
6710 BK Ede, Netherlands

International marketing and export for small and medium-sized firms

Short description: Basic concepts of international marketing; environment analysis and strategic decision; market research; product, pricing and distribution decisions; communication; organization. Commencing date: March, September. Duration: 13 weeks. Qualifications: Bachelor's degree or equivalent in a relevant field of study. English. Deadline for application: January, July. Fees: f. 15,500.

Organizer: International Centre for Quality and Management Sciences (ICQMS)
's-Gravendijkwal 10
P.O. Box 2082
3000 CB Rotterdam, Netherlands

Small entrepreneurship promotion

Short description: Small and medium sized industry management and consultancy; entrepreneurship development; small industry support systems; management of a business centre and of a consulting firm or unit; problem analysis and action planning with respect to the home situation. Commencing date: September. Duration: 13 weeks. Qualifications: Degree in business administration, economics, or related science. English. Deadline for application: July. Fees: f. 15,500.
Training of women entrepreneurs

Short description: Managerial skills for women entrepreneurs; training the trainers of women entrepreneurs; development of new enterprises; management for women. Commencing date: August. Duration: 13 weeks. Qualifications: Degree in social sciences, economics, law or other related science. English. Deadline for application: June. Fees: f. 15,500.

Organizer: Netherlands International Institute for Management (RVB)
Executive Programmes
Endepolsdomein 150
P.O. Box 1203
6201 BE Maastricht, Netherlands

Developing income-generating enterprise

Short description: To improve the ability of staff of local and international voluntary organizations to design and implement effective and eventually self-sustaining programmes of assistance for enterprise, within the context of overall community development. Commencing date: April. Duration: 6 weeks. Qualifications: English. Deadline for application: January. Fees: £4,300 (including accommodation).

Organizer: The Enterprise Development Centre
Cranfield School of Management
Cranfield, Bedfordshire MK43 OAL, United Kingdom

Finance for enterprise

Short description: Skills for staff of finance institutions and assistance agencies involved in the design and implementation of credit and loan schemes for small and micro-enterprises. Commencing date: August. Duration: 4 weeks. Qualifications: English. Deadline for application: July. Fees: £3,500 (including accommodation).

Organizer: The Enterprise Development Centre
Cranfield School of Management
Cranfield, Bedfordshire MK43 OAL, United Kingdom

Food processing as a small business


Organizer: Silsoe College
Silsoe, Bedford MK45 4DT, United Kingdom

New and small enterprise promotion

Short description: Skills for staff of agencies, government departments and extension services which offer advice, financial support and technical assistance to local entrepreneurs and small businesses. Commencing date: July. Duration: 8 weeks.
**People-centred business: cooperative form of organization for income generation in the industrial sector**

*Short description:* Cooperative organization, management and leadership; field visits to worker cooperatives, development and funding agencies. *Commencing date:* August.


**Organizer:**
The Enterprise Development Centre  
Cranfield School of Management  
Cranfield, Bedfordshire MK43 OAL, United Kingdom

**Promotion and development of women's enterprise in developing countries**

*Short description:* Personal skills; role of women; changing work roles; needs of business women; basic business skills; supporting female entrepreneurs; credit and savings; rural enterprise; cooperatives; appropriate technology. *Commencing date:* August.


**Organizer:**
The Plunkett Foundation  
23 Hanborough Business Park  
Long Hanborough  
Oxford OX7 2LH, United Kingdom

**Small business advisers and counsellors in developing countries**

*Short description:* To give small business advisers and counsellors in developing countries first-hand experience of the small business support network in the north-east of England. Participants are attached to small business support agencies and produce action plan for implementation in their home country. *Commencing date:* To be arranged. *Duration:* Up to 4 weeks. *Qualifications:* At least one year of involvement in some aspect of small business development and intention to continue being involved. English. *Deadline for application:* —. *Fees:* £700 per week.

**Organizer:**
International Programmes Unit  
Small Business Centre  
Durham University Business School  
Durham DH1 3LB, United Kingdom

**Small and medium enterprises in newly industrialized and developing countries**

*Short description:* Skills required to design and implement integrated programmes for the promotion and development of small businesses; emphasis placed on encouraging participants to produce action plans for implementation in their home countries. *Commencing date:* August. *Duration:* 10 weeks. *Qualifications:* Experience in supporting and promoting the development of small businesses. English. *Deadline for application:* 2 months before commencing date. *Fees:* £6,500.

**Organizer:**
International Programmes Unit  
Small Business Centre  
Durham University Business School  
Durham DH1 3LB, United Kingdom
Training for enterprise

Short description: For trainers, advisers, instructors and educators engaged in training entrepreneurs or those involved in small-scale enterprise development. The objective is to enhance the participants ability to design and conduct an effective training programme. Commencing date: August. Duration: 4 weeks. Qualifications: Participants must be directly involved, or intend to be involved, in running training programmes for entrepreneurs or small businesses. English. Deadline for application: July. Fees: £3,500 (including accommodation and meals).

Organizer: The Enterprise Development Centre
Cranfield School of Management
Cranfield, Bedfordshire MK43 0AL, United Kingdom

Trainer development/Formation de formateurs/
Perfeccionamiento de profesionales de capacitación

Sélection et formation d'instructeurs


Organisateur : Internation’ Executives Benelux SA "INTEX"
5, rue de la Science
1040 Bruxelles, Belgique

Formation des formateurs


Organisateur : Centre d'études et de recherches de l'Institut supérieur industriel catholique du Hainaut (CERISICASBL)
22, avenue de l'Hôpital
7000 Mons, Belgique

Audiovisual training materials

Short description: The role of audiovisual materials in teaching and advising; production of projected and non-projected training materials; use of PC for developing teaching...
materials. **Commencing date:** August. **Duration:** 8 weeks. **Qualifications:** Bachelor of science or several years of relevant experience. English. **Deadline for application:** February. **Fees:** DM 8,995.

**Organizer:** Deutsche Lehranstalt für AgrarTechnik (DEULA)
Bartningstr. 49
6100 Darmstadt, Germany

**Human resource development and planning**

**Short description:** Training needs assessment; placement statistics; signalling indicators; demographic projections; manpower forecasts; returns analysis; sample surveys of formal and informal employment in rural and urban areas; computer training. **Commencing date:** September. **Duration:** 13 weeks. **Qualifications:** Degree in economics, statistics, management, engineering or other related field. English. **Deadline for application:** June. **Fees:** £ 15,000.

**Organizer:** Erasmus University, Rotterdam (EUR)
Growth Dynamic: University Institute
Faculty of Economic Sciences
Burgemeester Oudlaan 50, UB 47
P.O. Box 1738
3000 DR Rotterdam, Netherlands

**Instructors for operator training of earthmoving and building construction machinery**

**Short description:** The course will be led according to the international standard ISO 7130. **Commencing date:** September. **Duration:** 1 month. **Qualifications:** English, German, Russian. **Deadline for application:** 6 months before commencing date. **Fees:** To be arranged.

**Organizer:** Institute for Building Mechanization and Rock Mining
Racionalizacji 6/8
02-673 Warsaw, Poland

**Management of training**

**Short description:** For senior officers who are managing training or who are about to take up training appointments in public authorities, government training centres or institutes of public administration. **Commencing date:** February, June, September. **Duration:** 12 weeks. **Qualifications:** English. **Deadline for application:** 8 weeks before commencing date. **Fees:** Approximately £4,800.

**Organizer:** Royal Institute of Public Administration
International Services
Regent’s College
Inner Circle
Regent’s Park
London NW1 4NS, United Kingdom

**Management of training within organizations**

**Short description:** Organization and management of the training function within organizations. Successful completion of the course and a major project leads to the award of the diploma in training management. **Commencing date:** March, June, November. **Duration:** 7 weeks. **Qualifications:** Certificate in training and development or equivalent. English. **Deadline for application:** —. **Fees:** Approximately £2,520.
Managing the training function

Short description: Formulation of training and developing policy, assessment of training needs, designing of learning/development methods, delivery of training and the setting up and operation of training facilities. Commencing date: August. Duration: 12 weeks. Qualifications: Training officers, advisers and line managers with responsibility for training. English. Deadline for application: 4 weeks before commencing date. Fees: To be arranged.

Organizer: Industrial Training Service Ltd.
International Office
73/75 Mortimer Street
London W1N 8HX, United Kingdom

Training and development

Short description: Systematic training, training design, training needs diagnosis, training resources and methods, job analysis, recruitment and selection, interpersonal skills. Commencing date: Throughout the year. Duration: 20 days, divided into two modules of ten days separated by a project period. Qualifications: English. Deadline for application: To be arranged. Fees: To be arranged.

Organizer: Fielden House Ltd.
Mersey Road, West Didsbury
Manchester M20 8QA, United Kingdom

Training—its design and management


Organizer: Crown Agents
Manpower Development Services
St. Nicolas House
Sutton, Surrey SM1 1EL, United Kingdom

Venue: Crown Agents
Management Training Centre
3-10 Marine Parade
Worthing, Sussex BN11 3PW, United Kingdom

Training management

Short description. Advanced level programme on the practice and management of training: the course is run in accordance with the syllabus and regulations of the Institute of Training and Development. Commencing date: Throughout the year. Duration: 25 days. Qualifications: International baccalaureate or equivalent. English. Deadline for application. — Fees: To be arranged.

Organizer: Fielden House Ltd.
Mersey Road, West Didsbury
Manchester M20 8QA, United Kingdom
Training of trainers in purchasing and supply

Short description: To update and extend expertise in purchasing and supply, and develop participants' lecturing and training skills, so that they can effectively train others. Commencing date: April. Duration: 8 weeks. Qualifications: English. Deadline for application: 1 month before commencing date. Fees: £4,550.

Organizer: Institute of Purchasing and Supply
Easton House
Easton on the Hill
Stamford, Lincolnshire PE9 3NZ, United Kingdom

Training support services

Short description: Courses in instructional techniques and technical writing; attachments to training support services units to gain practical experience of technical writing, editing and audiovisual production. Commencing date: October. Duration: 6 weeks. Qualifications: Relevant working experience. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: BEI Training Services
16-18 Chequer Street
St. Albans, Hertfordshire AL1 3YD, United Kingdom

Training techniques for training officers

Short description: Basic training skills, including assessing training needs and organizing and designing training. Commencing date: January, April, September. Duration: 8 weeks. Qualifications: English. Deadline for application: —. Fees: Approximately £2,880.

Organizer: Don Macdonald
Thames Valley College
Business Training Services
Wellington Street
Slough, Berkshire SL1 1YG, United Kingdom
B. DEVELOPING COUNTRIES/PAYS EN DÉVELOPPEMENT/
PAÍSES EN DESARROLLO

I. INDUSTRIAL BRANCHES/SECTEURS INDUSTRIELS/
RAMAS INDUSTRIALES

Building materials industries/Industrie des matériaux de construction/
Industrias de los materiales de construcción

Fibre/microconcrete roofing technology

Short description: Thorough grounding in FCR/MCR, including theory, site visits and practical sessions in production of FCR/MCR tiles; QA techniques, roofing techniques, management of small workshops, equipment manufacture, technology transfer methodology, training and follow-up. Commencing date: To be arranged. Duration: 3 weeks. Qualifications: Bachelor's degree in engineering or architecture. English, Nepali. Deadline for application: 4 months before commencing date. Fees: SUS 2,000 (including accommodation).

Organizer: Materials Technology Department
Development and Consulting Services
Butwal, Nepal

Contact address:
Materials Technology Department
Development and Consulting Services
c/o UMN
P.O. Box 126
Kathmandu, Nepal

Construction

Short description: Courses on: light-frame construction; reinforced concrete and masonry construction; plumbing; sheet metal layout and fabrication; pipe fitting/fabrication; electric arc welding; pipe welding; construction estimating. Commencing date: January, February, March. Duration: 12 months. Qualifications: Professional qualifications. English. Deadline for application: To be arranged. Fees: P 360-1,070

Organizer: Office of Manpower Skills Development (OMSD)
National Manpower and Youth Council
Taguig, Metro Manila, Philippines

Erection works (steel construction)

Short description: Fabrication process, erection methods and techniques, welding quality control, structural steel detailing, open end frame and tubular scaffolding, the use of theodolite and auto level, construction cranes and elevators, estimating of steel structure and construction safety. Commencing date: To be arranged. Duration: 17 days. Qualifications: Bachelor's degree, preferably in engineering, with 2 years of experience in construction. English. Deadline for application: 1 month before commencing date. Fees: SUS 600
Fabrication works (steel construction)

Short description: Knowledge and information applied in steel fabrication, focus on quality control and lowering production costs while increasing output. Commencing date: To be arranged. Duration: 16 days. Qualifications: Bachelor's degree, preferably in engineering, with 2 years of experience in construction. English. Deadline for application: 1 month before commencing date. Fees: $US 800.

Organizer: Construction Manpower Development Foundation (CMDF) 6th floor, Prudential Bank Building 2158 Pasong Tamo, Makati Metro Manila, Philippines

Form works (vertical construction)

Short description: Execution schemes for form works; shop drawings; fabrication and assembly; estimating form works; safety. Commencing date: To be arranged. Duration: 13 days. Qualifications: Bachelor's degree, preferably in engineering with 2 years of experience in construction. English. Deadline for application: 1 month before commencing date. Fees: $US 600.

Organizer: Construction Manpower Development Foundation (CMDF) 6th floor, Prudential Bank Building 2158 Pasong Tamo, Makati Metro Manila, Philippines

Foundation works (vertical construction)

Short description: Soil mechanics fundamentals; foundation exploration; experimental and theoretical treatment of soil and ground as an engineering material. Commencing date: To be arranged. Duration: 15 days. Qualifications: Bachelor's degree, preferably in engineering with 2 years of experience in construction. English. Deadline for application: 1 month before commencing date. Fees: $US 800.

Organizer: Construction Manpower Development Foundation (CMDF) 6th floor, Prudential Bank Building 2158 Pasong Tamo, Makati Metro Manila, Philippines

Rebar works (vertical construction)

Short description: Construction safety, planning, scheduling and estimating reinforcing works; shop drawings and detailing; reinforcing bar fabrication; installation and assembly; and quality control on reinforcement work. Commencing date: To be arranged. Duration: 15 days. Qualifications: Bachelor's degree, preferably in engineering, with 2 years of experience in construction. English. Deadline for application: 1 month before commencing date. Fees: $US 600.

Organizer: Construction Manpower Development Foundation (CMDF) 6th floor, Prudential Bank Building 2158 Pasong Tamo, Makati Metro Manila, Philippines
Curso básico de tecnología del caucho


Organizador: CTIC
C.C. 157
1650 San Martín
Buenos Aires, Argentina

Dirección de la entidad a contactar:
INTI
Relaciones y Proyectos Internacionales
Avda. Leandro N. Alem 1067
1001 Buenos Aires, Argentina

Curso superior de tecnología del caucho


Organizador: CTIC
C.C. 157
1650 San Martín
Buenos Aires, Argentina

Dirección de la entidad a contactar:
INTI
Relaciones y Proyectos Internacionales
Avda. Leandro N. Alem 1067
1001 Buenos Aires, Argentina

Envases y embalajes de plástico


Organizador: CTIP
C.C. 157
1650 San Martín
Buenos Aires, Argentina

Dirección de la entidad a contactar:
INTI
Relaciones y Proyectos Internacionales
Avda. Leandro N. Alem 1067
1001 Buenos Aires, Argentina

Materiales plásticos reforzados

Breve descripción: Propiedades químicas y mecánicas; aplicaciones; procesos de fabricación; control de calidad. Fecha de iniciación: Para ser acordado. Duración:

Organizador: CTTIP
C. C. 157
1650 San Martín
Buenos Aires, Argentina

Dirección de la entidad a contactar:
INTI
Relaciones y Proyectos Internacionales
Avda. Leandro N. Alem 1067
1001 Buenos Aires, Argentina

Tecnología del caucho


Organizadores: CTTIC
C. C. 157
1650 San Martín
Provincia de Buenos Aires, Argentina

Dirección de la entidad a contactar:
INTI
Relaciones y Proyectos Internacionales
Avda. Leandro N. Alem 1067
1001 Buenos Aires, Argentina

Corrosión

Short description: Basic concepts, main theoretical aspects, application in industry, field training. Commencing date: To be arranged. Duration: 2-4 weeks. Qualifications: Bachelor’s degree (engineering or science) or technicians. English, French. Deadline for application: December 1991. Fees: $US 500 per week.

Organizer: Tabbin Institute for Metallurgical Studies (TIMS)
P. O. Box 109
Helwan
11421 Cairo, Egypt

Computer-aided design for plastics

Short description: Computer operating systems, product design concepts, drafting on PC version, graphics, finite element analysis, 3D modelling, 2D modelling, flow and cooling analysis for plastics. Commencing date: To be arranged. Duration: 20 weeks. Qualifications: Degree in engineering or computer science. English. Deadline for application: 3 months before commencing date. Fees: $US 250 per week; $US 100 per week for boarding and lodging.

Organizer: Central Institute of Plastics Engineering and Technology
Industrial Estate
Guindy, Madras 600 032, India

Plastics mould design

Short description: Introduction to design principles, engineering drafting, design concepts and design of hand moulds, design of auto- and semi auto injection, compression,
transfer and blow moulds, design of extrusion dies, plastics materials and processing, quality control and mould-making technology. **Commencing date:** To be arranged. **Duration:** 1 year (could be offered in modules of 13 weeks in each discipline). **Qualifications:** Degree in science. English. **Deadline for application:** 3 months before commencing date. **Fees:** $US 250 per week; $US 100 per week for boarding and lodging.

**Organizer:** Central Institute of Plastics Engineering and Technology  
Industrial Estate  
Guindy, Madras 600 032, India

**Plastics processing technology**

**Short description:** Study of plastics materials, basic polymer chemistry, plastics processing, basic industrial engineering, practical injection, compression, transfer, blow moulding, extrusion process practicals, quality control and testing. **Commencing date:** To be arranged. **Duration:** 1 year (could be offered in modules of 13 weeks in each discipline). **Qualifications:** Degree in science. English. **Deadline for application:** 3 months before commencing date. **Fees:** $US 250 per week; $US 100 per week for boarding and lodging.

**Organizer:** Central Institute of Plastics Engineering and Technology  
Industrial Estate  
Guindy, Madras 600 032, India

**Plastics testing and conversion technology**

**Short description:** Study of plastics materials, basic polymer chemistry, plastics processing, basic industrial engineering, testing of mechanical, electrical, optical, thermal and rheology properties, testing practicals, specimen preparation and quality control. **Commencing date:** To be arranged. **Duration:** 1 year (could be offered in modules of 13 weeks in each discipline). **Qualifications:** Degree in science. English. **Deadline for application:** 3 months before commencing date. **Fees:** $US 250 per week; $US 100 per week for boarding and lodging.

**Organizer:** Central Institute of Plastics Engineering and Technology  
Industrial Estate  
Guindy, Madras 600 032, India

**In-plant training for engineers in chemical, electrical, mechanical and instrument disciplines**

**Short description:** Improve managerial skills of executives for a more efficient management of capital and human resources. Class-room training includes lectures on and discussions of particular processes. On-the-job training in one of the large nitrogenous or phosphatic fertilizer plants of NFC. **Commencing date:** To be arranged. **Duration:** 3 months. **Qualifications:** English. **Deadline for application:** —. **Fees:** $US 600 per month, including board and lodging.

**Organizer:** National Fertilizer Corporation of Pakistan (Private) Limited  
1st Floor, Alfalah Building  
Shahrah-e-Quaid-e-Azam  
I. shore, Pakistan

**In-plant training for operators/technicians in chemical, electrical, mechanical and instrument disciplines**

**Short description:** Basic training for entry-level operators and technicians in the chemical and fertilizer industries. Skills for ensuring safe and efficient operation of the plant
and optimum return on investment through enhanced productivity. Commencing date: September. Duration: 1 year. Qualifications: High-school graduation or diploma in engineering. English. Deadline for application: July. Fees: $US 5,000, including board and lodging.

Organizer: National Fertilizer Corporation of Pakistan (Private) Limited
1st Floor, Alfalah Building
Shahrah-e-Quaid-e-Azam
Lahore, Pakistan

Laboratory techniques

Short description: Analytical testing; physical testing; quality control of fertilizers; corrosion measurement; beneficiation of phosphate rock; phosphoric acid production; fertilizer granulation. Commencing date: To be arranged. Duration: 12 weeks. Qualifications: English. Deadline for application: -. Fees: $US 600 per month.

Organizer: National Fertilizer Corporation of Pakistan (Private) Limited
1st Floor, Alfalah Building
Shahrah-e-Quaid-e-Azam
Lahore, Pakistan

Venue: Fertilizer Research and Development Institute
Faisalabad, Pakistan

Utilization of medicinal and aromatic plants in pharmaceutical and related industries

Short description: Theoretical lectures, laboratory and pilot plant practicals on production of pharmaceutical and cosmetic raw materials and finished products using medicinal and aromatic plants: quality control; round-table discussions; factory visits. Commencing date: September. Duration: 4 weeks. Qualifications: Chemists, pharmacists or chemical engineers with 2 years of related experience. English. Deadline for application: June. Fees: $US 2,000 (including board and lodging).

Organizer: Anadolu University
Medicinal Plants Research Centre
26470 Eskisehir, Turkey

Electrical and electronic industries/Industries électriques et électroniques/Industrias eléctricas y electrónicas

Electrical/diesel locomotive maintenance

Maintenance of traction power supply

Short description: Introduction to electrification, 25 kV AC traction system, power supply system and substation; feeding post, sectioning and paralleling posts, subsectioning posts; maintenance, schedules for substations, OHE principles and designs, OHE supporting structure; maintenance and repair at power supply substation; mobile monitoring of OHE, OHE break-down maintenance. Commencing date: To be arranged. Duration: 13 weeks. Qualifications: Supervisory personnel of electrical departments. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

Venue: Indian Railways Institute of Electrical Engineering
P.O. Box 33
Nasik Road 422 101, India

Repair, overhaul and maintenance of traction machines

Short description: Inspection of traction motors, stripping of traction machines, armature assembly and testing, coil manufacture and assembly, manufacture and repair of commutator segments and traction motor, assembly and testing, stator manufacture and repair, maintenance schedules for traction machines, special tooling, jigs and fixtures for maintenance. Commencing date: To be arranged. Duration: 13 weeks. Qualifications: Supervisory personnel of electrical departments. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

Venue: Indian Railways Institute of Electrical Engineering
P.O. Box 33
Nasik Road 422 101, India
Telecommunications

Short description: Passive devices, electronics fundamentals, applied digital electronics, propagation and antenna; electronic measurements, line plant practice, public communication systems, power plant practice, telegraphy, telephony, carrier and multiplexing; train traffic control, HF/VHF/MW communication, telephony and control laboratory, electronic laboratory, outdoor telecommunications laboratory. Commencing date: To be arranged. Duration: 18 weeks. Qualifications: Engineers with 5-8 years of experience. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

Venue: Indian Railways Institute of Signal Engineering and Telecommunication
P.O. Lallaguda
Secunderabad 500 017, India

Electrical maintenance

Short description: Design, installation and operation of lighting, power control, grounding, protection, emergency and communication systems. Commencing date: To be arranged. Duration: 40 days. Qualifications: Bachelor's degree, preferably in engineering, with 2 years of experience in construction. English. Deadline for application: 1 month before commencing date. Fees: $US 800.

Organizer: Construction Manpower Development Foundation (CMDF)
6th floor, Prudential Bank Building
2158 Pasong Tamo, Makati
Metro Manila, Philippines

Electronics and telecommunication


Organizer: Office of Manpower Skills Development (OMSD)
National Manpower and Youth Council
T: guig, Metro Manila, Philippines

Food-processing industries/Industrie alimentaire/
Industrias alimentarias

Industrial fermentation and alcohol technology

Short description: Fermentation and distillation processes; in-plant training in distilleries and other fermentation industries. Commencing date: July. Duration: 1 year, followed
by 4 months of practical training. *Qualifications:* Bachelor of Science or equivalent, with 1 year experience in the fermentation industry. English. *Deadline for application:* May. *Fees:* To be arranged.

**Organizer:**
National Sugar Institute  
Government of India

**Contact address:**
Government of India  
Ministry of Food and Civil Supplies  
Department of Food  
Kanpur 208 017, India

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**Pre-harvest cane maturity survey**

*Short description:* Cane sampling, testing and analysis. **Commencing date:** October. **Duration:** 1½ months. **Qualifications:** Background in science, with 2 years of relevant experience. English. **Deadline for application:** —. **Fees:** Rs 1,369.

**Organizer:**
National Sugar Institute  
Government of India

**Contact address:**
Government of India  
Ministry of Food and Civil Supplies  
Department of Food  
Kanpur 208 017, India

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**Sugar boiling**

*Short description:* Pan boiling and related operations and techniques of analysis of sugarhouse products. **Commencing date:** July. **Duration:** 4 months. **Qualifications:** Background in science, with relevant experience. English. **Deadline for application:** May. **Fees:** Rs 1,447.

**Organizer:**
National Sugar Institute  
Government of India

**Contact address:**
Government of India  
Ministry of Food and Civil Supplies  
Department of Food  
Kanpur 208 017, India

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**Sugar engineering**

*Short description:* Engineering involved in the sugar industry. **Commencing date:** July. **Duration:** 2 off-seasons of 4 months each. **Qualifications:** Diploma in mechanical or electrical engineering, with 1 year of relevant experience. English. **Deadline for application:** May. **Fees:** To be arranged.

**Organizer:**
National Sugar Institute  
Government of India

**Contact address:**
Government of India  
Ministry of Food and Civil Supplies  
Department of Food  
Kanpur 208 017, India
Utilization of animal by-products

Short description: Utilization and processing of animal by-products such as protein meals, bone products, animal blood products etc.; glue and gelatine, pet food; utilization of keratinous proteins; different methods of rendering; pilot-scale preparations. Commencing date: To be arranged. Duration: 4 months-1 year. Qualifications: Secondary school, with some experience in the chosen field. English. Deadline for application: 3 months before commencing date. Fees: Rs 7,500 per month.

Organizer: Central Leather Research Institute
Adyar
Madras 600 020, India

Contact address:
International Scientific Collaboration
Council of Scientific and Industrial Research
Anusandhan Bhavan
Rafi Marg
New Delhi 110 001, India

Cane-sugar manufacture


Organizer: Regional Sugarcane Training Centre for Africa
Réduit, Mauritius

Chemical control of sugar factories and analysis of sugar products


Organizer: Regional Sugarcane Training Centre for Africa
Réduit, Mauritius

Leather and leather-products industry./Industrie du cuir et des articles en cuir/Industrias del cuero y de los productos de cuero

Advanced leather-processing technology, including finishing of leathers

Short description: Tailor made courses in leather-processing technology, with emphasis on tanning and finishing of all kinds of leathers, including cattle and buffalo hides, goat and sheep skins; physical and chemical testing of leathers. Commencing date: To be arranged. Duration: 4 months-1 year. Qualifications: Secondary school, with some experience in the chosen field. English. Deadline for application: 3 months before commencing date. Fees: Rs 7,500 per month.
Design and fabrication of leather goods


Footwear manufacture

Short description: Different sizing systems, shoe design and pattern making, clicking and closing, fabrication of different types of footwear, shoe-finishing techniques, quality control and testing of footwear. Commencing date: To be arranged. Duration: 4 months-1 year. Qualifications: Secondary school, with some experience in the chosen field. English. Deadline for application: 3 months before commencing date. Fees: Rs 10,000 per month.

Manufacture of leather goods

Short description: Theory and practice of pattern cutting, various unit operations; use of tools and machines in leather-goods manufacture; fabrication of small leather goods, medium to heavy leather goods, handbags and suitcases. Commencing date: To be arranged. Duration: 4 months-1 year. Qualifications: Secondary school, with some experience in the chosen field. English. Deadline for application: 3 months before commencing date. Fees: Rs 7,500 per month.
Footwear and leather goods

Short description: Courses on: components cutting; components preparation and assembling; sewing operations; designing and pattern making; sample making; bottom making; upper closing; bottom making; industrial sewing machine maintenance; leather quality evaluation; quality control system. Commencing date: January, February, July, August. Duration: 1-2 1/2 months. Qualifications: High school graduation. English. Deadline for application: To be arranged. Fees: P 350-500.

Organizer: Office of Manpower Skills Development (OMSD)
National Manpower and Youth Council
Taguig, Metro Manila, Philippines

Mechanical and metalworking industries/
Industrie de construction mécanique et de transformation de métaux/
Industrias mecánicas y de transformación de metales

Construcciones soldadas


Organizador: División Cooperación Técnica
Calle 57 No. 8-69, Torre Central, Piso 6
Bogotá, Colombia

Lugar: Centro Colombo Alemán
Barranquilla, Regional Atlántico, Colombia

Instructores de soldaduras eléctricas y especiales


Organizador: División Cooperación Técnica
Calle 57 No. 8-69, Torre Central, Piso 6
Bogotá, Colombia

Lugar: Centro Colombo Alemán
Barranquilla, Regional Atlántico, Colombia
Mecánica de mantenimiento industrial

**Breve descripción:** Administrar y dirigir el mantenimiento de máquinas industriales, equipo pesado y agrícola; detectar, diagnosticar y resolver problemas técnicos de los sistemas económicos, convencionales, neumáticos, hidráulicos, eléctricos y de lubricación.

**Fecha de iniciación:** Febrero. **Duración:** 11 meses. **Calificaciones:** Ingenieros, bachilleres. **Español. Fecha límite de inscripción:** 3 meses antes del curso. **Derechos de inscripción:** —.

**Organizador:** División Cooperación Técnica
Calle 57 No. 8-69, Torre Central Piso o
Bogotá, Colombia

**Lugar:** Centro Colombo Alemán
Barranquilla, Regional Atlántico, Colombia

Advanced CAD/CAM systems for shipbuilding

**Short description:** CAD/CAE/CAM and computer-integrated manufacturing systems available world-wide and how to select the most suitable system for a given shipyard. **Commencing date:** April. **September. Duration:** 3 months. **Qualifications:** Bachelor’s degree in naval architecture or equivalent, with practical experience. **English. Deadline for application:** 3 months before commencing date. **Fees:** $US 15,000 (including accommodation and meals).

**Organizer:** Alexandria Shipyard
Information Systems and Computer Centre
Gate No. 36, Kabbery
Alexandria, Egypt

Maintenance of mechanical equipment

**Short description:** Basic concepts, main theoretical aspects, application in industry, field training. **Commencing date:** To be arranged. **Duration:** 2-4 weeks. **Qualifications:** Bachelor’s degree in engineering or science. **English. Deadline for application:** —. **Fees:** $US 500 per week.

**Organizer:** Tabbín Institute for Metallurgical Studies (TIMS)
P.O. Box 109
Helwan
11421 Cairo, Egypt

Welding technology

**Short description:** Basic concepts, main theoretical aspects, application in industry, field training. **Commencing date:** To be arranged. **Duration:** 2-4 weeks. **Qualifications:** Bachelor’s degree in engineering or science, technicians. **English, French. Deadline for application:** —. **Fees:** $US 500 per week.

**Organizer:** Tabbín Institute for Metallurgical Studies (TIMS)
P.O. Box 109
Helwan
11421 Cairo, Egypt

Machining and die making

**Short description:** Cutting tools, principles of metal cutting, operation and maintenance of machine tools, practical training in operations on light and heavy duty workshop machinery (turning, milling, gear cutting), die making and reconditioning. **Commencing**
date. To be arranged. Duration: 3 or 5 months. Qualifications: Diploma in mechanical engineering, or related technical school certificate, with 3 years of experience. English. Deadline for application: 4 months before commencing date. Fees: To be arranged.

Organizer: Akaki Spare Parts and Hand Tools Factory
P.O. Box 7334
Addis Ababa, Ethiopia

Spare parts design

Short description. Familiarization with design activities for machined, cast and forged spare parts with proper material and process selection; theoretical and practical training in cold working, forging and design of injection moulding dies. Commencing date. To be arranged. Duration: 3 months. Qualifications: Bachelor's degree in mechanical engineering or equivalent, with 1 year of experience. English. Deadline for application: 4 months before commencing date. Fees: To be arranged.

Organizer: Akaki Spare Parts and Hand Tools Factory
P.O. Box 7334
Addis Ababa, Ethiopia

Spare parts stock control and ordering system

Short description. Systematic ordering of spare parts on an annual basis: production schedule and flow processes, quality control, delivery of products to the central store. Commencing date. To be arranged. Duration: 1 month. Qualifications: Diploma in stock and material management or equivalent, with 3 years of experience. English. Deadline for application: 3 months before commencing date. Fees: To be arranged.

Organizer: Akaki Spare Parts and Hand Tools Factory
P.O. Box 7334
Addis Ababa, Ethiopia

Tool design

Short description. Design of moulds, dies, jigs and fixtures. Commencing date. To be arranged. Duration: 3 months, 6 months or 1 year. Qualifications: Bachelor's degree in mechanical engineering or equivalent, with 3 years of experience. English. Deadline for application: —. Fees: To be arranged.

Organizer: Engineering Design and Tool Centre
P.O. Box 41638
Addis Ababa, Ethiopia

Automotive engineering—research and development

Short description. In plant training programme on research and development. Commencing date. To be arranged. Duration: 12 months. Qualifications: Degree in engineering or a related discipline. English. Deadline for application: 6 months before commencing date. Fees: S 115 500 plus actual project cost.

Organizer: The Automotive Research Association of India
P.O. Box 832
Pune 411 004, India

Diesel locomotives

Short description. Transmission systems, excitation systems, engine speed control, fuel injection and combustion, pressure charging of diesel locomotive engines, mechanical
subassemblies, brake system, air compressor and exhaustor, electric systems and control, analysis of diesel traction, lube/fuel oil system, rating and testing of diesel locomotives, failure investigation, MIS for locomotives, accident analysis. Commencing date: To be arranged. Duration: 12 weeks. Qualifications: Engineers with 5 years of experience. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

Venue: Indian Railways Institute of Mechanical and Electrical Engineering
Jamalpur, India

Tool room supervisor’s refresher course

Short description. A combination of technical subjects and supervisory skills such as leadership, motivation, decision-making, conflict resolution and communication. Commencing date: May. Duration: 100 hours. Qualifications: Supervisory staff in tool room. English. Deadline for application: January. Fees: US $600.

Organizer: NITT Training Centre
P.O. Box 5857
No. 23/24, II Phase, Peenya Industrial Area
Bangalore 560 058, India

Design of spare parts for machinery repair and maintenance

Short description. Diagnose broken down equipment and identify the faulty or missing parts; design/adapt and supervise the production of spare/replacement parts for machinery repair and maintenance. Commencing date: April, September. Duration: 12 weeks. Qualifications: University degree in mechanical engineering or equivalent, with 1-2 years of experience. English, French. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: ARCEDEM/CRACFT
Km 9, Ibadan-Iwo Road
PMB 19, U.I. Post Office
Ibadan, Nigeria

Tool design and manufacturing

Short description. Optimum design, selection, manufacture and use of tools so as to minimize production and labour cost, improved quality of product by better surface finishing and desired accuracy, ensure work safety. Commencing date: January, June. Duration: 12 weeks. Qualifications: University degree in mechanical engineering or equivalent, with 1-2 years of experience. English, French. Deadline for application: 2 months before commencing date. Fees: —

Organizer: ARCEDEM/CRACFT
Km 9, Ibadan-Iwo Road
PMB 19, U.I. Post Office
Ibadan, Nigeria
Heavy equipment maintenance (supervisory development course)

Short description: Hydraulic systems and power train, diesel engine overhauling, trouble shooting and testing, electrical system maintenance, testing and adjustment, fuel systems repair and calibration and equipment management. Commencing date: To be arranged. Duration: 15 days. Qualifications: Bachelor’s degree, preferably in engineering, with 2 years of experience in construction. English. Deadline for application: 1 month before commencing date. Fees: $US 1,000.

Organizer: Construction Manpower Development Foundation (CMDF)
6th floor, Prudential Bank Building
2158 Pasong Tamo, Makati
Metro Manila, Philippines

Land transport equipment


Organizer: Office of Manpower Skills Development (OMSD)
National Manpower and Youth Council
Taguig, Metro Manila, Philippines

Specialized training in metals

Short description: Courses on: computer-aided machining: milling operations; mechanical drafting; turning operations; precision grinding; metrology. Commencing date: January. Duration: 2 weeks-11 months. Qualifications: High school graduation. English. Deadline for application: To be arranged. Fees: P 1,350-4,000.

Organizer: Office of Manpower Skills Development (OMSD)
National Manpower and Youth Council
Taguig, Metro Manila, Philippines

Welding inspection (steel construction works)

Short description: Welding methods, metallurgy, design, materials, procedures, inspection/testing and quality control; hands-on experience on SMAW, GMAW, GTAW and metal cutting operations. Commencing date: To be arranged. Duration: 25 days. Qualifications: Bachelor’s degree, preferably in engineering, with 2 years of experience in construction. English. Deadline for application: 1 month before commencing date. Fees: $US 1,250.

Organizer: Construction Manpower Development Foundation (CMDF)
6th floor, Prudential Bank Building
2158 Pasong Tamo, Makati
Metro Manila, Philippines

Industrial engineering specialization


Organizer: Instituto de Soldadura e Qualidade
Rua Tomás de Figueiredo 16A
1500 Lisbon, Portugal
Industrial use of high-density energy beams


*Organizer:* Instituto de Soldadura e Qualidade
Rua Tomás de Figueiredo 16A
1500 Lisbon, Portugal

Welding engineering


*Organizer:* Instituto de Soldadura e Qualidade
Rua Tomás de Figueiredo 16A
1500 Lisbon, Portugal

Construction mécanique


*Organisateur:* CAFIP
Dakar-Marine
B.P. 63
Dakar, Sénégal

Mécanique Industrielle


*Organisateur:* CAFIP
Dakar-Marine
B.P. 63
Dakar, Sénégal

Electric-arc welding (E-1)

*Short description:* Basic principles of butt and fillet weld in different positions. Welding of butt and fillet joints, V-joints, T-joints in plates and profiles; electrical principles, welding equipment and materials, thermal cutting, safety measures. *Commencing date:* Throughout the year. *Duration:* 2 weeks. *Qualifications:* Degree in engineering or 2 years of welding experience. English or Turkish. *Deadline for application:* —. *Fees:* $US 300.

*Organizer:* Welding Technology Center
Metallurgical Engineering Department
Middle East Technical University
Ankara, Turkey
Electric-arc welding (E-2)

Short description: Different welding positions on V-joints, fillet joints, profiles; materials and geometrics; welding procedures, weld-joint preparation, welding faults, internal stress and strains. Commencing date: Throughout the year. Duration: 4 weeks. Qualifications: Degree in engineering or 2 years of welding experience. English or Turkish. Deadline for application: —. Fees: $US 700.

Organizer: Welding Technology Center
Metallurgical Engineering Department
Middle East Technical University
Ankara, Turkey

Electric-arc welding (E-3)

Short description: Butt and fillet joints in different positions on plates of 4-12 mm thickness. Commencing date: Throughout the year. Duration: 2 weeks. Qualifications: Degree in engineering or 2 years of welding experience. English or Turkish. Deadline for application: —. Fees: $US 400.

Organizer: Welding Technology Center
Metallurgical Engineering Department
Middle East Technical University
Ankara, Turkey

Gas welding (G-1)

Short description: Gas welding of I-joints on plates and pipes in different positions; welding gases, welding equipment, flame, welding material, thermal cutting and safety measures. Commencing date: Throughout the year. Duration: 2 weeks. Qualifications: Degree in engineering or 2 years of welding experience. English or Turkish. Deadline for application: —. Fees: $US 300.

Organizer: Welding Technology Center
Metallurgical Engineering Department
Middle East Technical University
Ankara, Turkey

Gas welding (G-2)

Short description: Welding of horizontal fixed pipes of 40-150 mm thickness; butt welds with I- and V-joints in all welding positions; material, overview of welding procedures, joint preparation, welding defects. Commencing date: Throughout the year. Duration: 4 weeks. Qualifications: Degree in engineering or 2 years of welding experience. English or Turkish. Deadline for application: —. Fees: $US 700.

Organizer: Welding Technology Center
Metallurgical Engineering Department
Middle East Technical University
Ankara, Turkey

Gas welding (G-3)

Short description: Welding of vertical pipes of 40-150 mm diameter in "q" and "s" positions. Commencing date: Throughout the year. Duration: 2 weeks. Qualifications: Degree in engineering or 2 years of welding experience. English or Turkish. Deadline for application: —. Fees: $US 400.
Organizer: Welding Technology Center  
Metallurgical Engineering Department  
Middle East Technical University  
Ankara, Turkey

Mag welding (St-1)

Short description: Fillet joints, I- and V-joints on plates in different positions; basic electronic principles, equipment, materials and safety. Commencing date: Throughout the year. Duration: 2 weeks. Qualifications: Degree in engineering or 2 years of welding experience. English or Turkish. Deadline for application: —. Fees: $US 450.

Organizer: Welding Technology Center  
Metallurgical Engineering Department  
Middle East Technical University  
Ankara, Turkey

Mag welding (St-2)

Short description: Fillet joints, I- and V-joints on plates of different positions and of different thicknesses; materials, welding principles, weld preparation and weld defects. Commencing date: Throughout the year. Duration: 2 weeks. Qualifications: Degree in engineering or 2 years of welding experience. English or Turkish. Deadline for application: —. Fees: $US 500.

Organizer: Welding Technology Center  
Metallurgical Engineering Department  
Middle East Technical University  
Ankara, Turkey

Tig welding (St-1)

Short description: Welding of butt-, I- and V-joints on plates of different thicknesses and in different welding positions; mag-welding principles, apparatuses, methods of elimination of defects, materials, thermal cutting and safety. Commencing date: Throughout the year. Duration: 2 weeks. Qualifications: Degree in engineering or 2 years of welding experience. English or Turkish. Deadline for application: —. Fees: $US 400.

Organizer: Welding Technology Center  
Metallurgical Engineering Department  
Middle East Technical University  
Ankara, Turkey

Tig welding (St-2)

Short description: Butt and fillet welding of plates in different positions; materials, welding procedures, weld preparation and welding defects. Commencing date: Throughout the year. Duration: 2 weeks. Qualifications: Degree in engineering or 2 years of welding experience. English or Turkish. Deadline for application: —. Fees: $US 500.

Organizer: Welding Technology Center  
Metallurgical Engineering Department  
Middle East Technical University  
Ankara, Turkey
Siderurgia


Organizador: Dirección de Perfeccionamiento de Personal
Instituto Argentino de Siderurgia
Pje. Carlos María Della Paolera 226
1104 Buenos Aires, Argentina

Application of computers in metallurgical industry


Organizer: Tabbin Institute for Metallurgical Studies (TIMS)
P.O. Box 109
Helwan
11421 Cairo, Egypt

Foundry production


Organizer: Tabbin Institute for Metallurgical Studies (TIMS)
P.O. Box 109
Helwan
11421 Cairo, Egypt

Heat treatment


Organizer: Tabbin Institute for Metallurgical Studies (TIMS)
P.O. Box 109
Helwan
11421 Cairo, Egypt

Industrial furnaces

Iron and steel industries


Organizer: Tabbin Institute for Metallurgical Studies (TIMS)
P.O. Box 109
Helwan
11421 Cairo, Egypt

Metal forming and rolling


Organizer: Tabbin Institute for Metallurgical Studies (TIMS)
P.O. Box 109
Helwan
11421 Cairo, Egypt

Ore preparation in the iron and steel industry


Organizer: Tabbin Institute for Metallurgical Studies (TIMS)
P.O. Box 109
Helwan
11421 Cairo, Egypt

Traitemcnt thermomécanique


Organisateur : Tabbin Institute for Metallurgical Studies (TIMS)
P.O. Box 109
Helwan
11421 Le Caire, Egypte

Forging technology

Short description. Introduction to forging technology, die material selection and treatment of forging dies, treatment of forged parts, installations and control devices for forging equipment. Commencing date: To be arranged. Duration: 2-3 months. Qualifications:
Bachelor's degree in mechanical engineering or equivalent, with 2 years of experience. English. Deadline for application: 4 months before commencing date. Fees: To be arranged.

Organizer: Akaki Spare Parts and Hand Tools Factory
P.O. Box 7334
Addis Ababa, Ethiopia

Foundry technology

Short description: Casting processes, sand preparation, technology of pattern making, moulding, core making, melting, gating and risering of castings, cleaning fettling, heat treatment and inspection of casting products. Commencing date: To be arranged. Duration: 3 months. Qualifications: Bachelor's degree in mechanical engineering or equivalent, with 2 years of experience. English. Deadline for application: 4 months before commencing date. Fees: To be arranged.

Organizer: Akaki Spare Parts and Hand Tools Factory
P.O. Box 7334
Addis Ababa, Ethiopia

Heat treatment of metals

Short description: Thermal, thermo-chemical and chemical heat treatment of ferrous alloys; practical exercises on heat treatment cycles of metals. Commencing date: To be arranged. Duration: 2 months. Qualifications: Bachelor's degree in mechanical engineering with 1 year of experience, or diploma in metal technology with 2 years of experience. English. Deadline for application: 4 months before commencing date. Fees: To be arranged.

Organizer: Akaki Spare Parts and Hand Tools Factory
P.O. Box 7334
Addis Ababa, Ethiopia

Metallurgy

Short description: Physical metallurgy, metallographic analysis, chemical analysis, charge preparation of metallic castings. Commencing date: To be arranged. Duration: 6 weeks. Qualifications: Degree in metallurgy or equivalent with 2 years of experience. English. Deadline for application: 4 months before commencing date. Fees: To be arranged.

Organizer: Akaki Spare Parts and Hand Tools Factory
P.O. Box 7334
Addis Ababa, Ethiopia

Plating of metals

Short description: Methods and principles of plating of metals; chrome plating, nickel plating, phosphating and other surface-protective finishing processes. Commencing date: To be arranged. Duration: 2 months. Qualifications: Technical school graduates. English. Deadline for application: 4 months before commencing date. Fees: To be arranged.

Organizer: Akaki Spare Parts and Hand Tools Factory
P.O. Box 7334
Addis Ababa, Ethiopia

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Integrated Iron and steel works


*Organizer:* Eregli Iron and Steel Works Company (Erdemir)  
Kdz. Eregli, Turkey

Textile industries/Industrie textile/Industrias textiles

Garments industry

*Short description:* Courses on: production management; quality control; effective supervision for greater productivity; pattern making and grading; styling and design development; trainers' training; cutting; pressing and packing. *Commencing date:* September, October, November. *Duration:* 1-2 1/2 weeks. *Qualifications:* Professional qualifications. English. *Deadline for application:* To be arranged. *Fees:* P750-2,250.

*Organizer:* Office of Industry Manpower and Incentives (OIMI)  
National Manpower and Youth Council  
Taguig, Metro Manila, Philippines

Cotton textiles

*Short description:* Broadening and upgrading professional knowledge and skills; problems in the textile industry and their solutions; technological developments. *Commencing date:* September. *Duration:* 26 days. *Qualifications:* Textile, chemical and mechanical engineers, with 3 years of related experience. English. *Deadline for application:* May.  
*Fees:* SUS 50 per day (including board and lodging).

*Organizer:* Sümehrbank Holding A.Ş.  
 Araştırma Geliştirme ve Eğitim İşletmesi  
Bursa, Turkey

Wood-processing and wood-products industries/Industrie du bois et des produits du bois/Industrias de elaboración de la madera y de productos de madera

**Procesos industriales del mueble y la madera**


*Organizador:* Cooperación Técnica  
Calle 57 No. 8-69, Torre Control, Piso 5  
Bogotá, Colombia

*Lugar:* Centro Colombiano Canadiense de la Madera  
Medellín Regional de Antioquia, Colombia
Engineering materials and their uses


Organizer: Tabbin Institute for Metallurgical Studies (TIMS)
P.O. Box 109
Helwan
11421 Cairo, Egypt

Measuring equipment and automatic control


Organizer: Tabbin Institute for Metallurgical Studies (TIMS)
P.O. Box 109
Helwan
11421 Cairo, Egypt

Mining engineering and technology


Organizer: Tabbin Institute for Metallurgical Studies (TIMS)
P.O. Box 109
Helwan
11421 Cairo, Egypt

Commercial management in railroads

Short description: Duties and responsibilities of railway staff, rules of conduct, passenger and freight traffic, station working, platform arrangements, station account claims, accidents, records and returns, statistics, pass amenities, establishment and general rules. Commencing date: To be arranged. Duration: 13 weeks. Qualifications: Senior staff with 5-8 years of relevant experience. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

Venue: Zonal Training School
Western Railway
Udaipur 313 001, India
Corporate business management in railroads

**Short description:** Basics of management, fiscal, economic and business policies and strategies, organization process and structure, personnel management, industrial relations, operations management, finance and marketing, management information system.

**Commencing date:** To be arranged. **Duration:** 4 weeks. **Qualifications:** Executive personnel. English. **Deadline for application:** 2 months before commencing date. **Fees:** To be arranged.

**Organizer:** RITES  
New Delhi, India

**Contact address:**  
Group General Manager (Training)  
New Delhi House  
27 Barakhamba Road  
New Delhi 110 001, India

**Venue:** Railway Staff College  
Vadodara, India

Flow measurement and control

**Short description:** Measurement techniques of air flow and water flow, calibration/testing of flow products, valves and actuators. **Commencing date:** September. **Duration:** 4 weeks. **Qualifications:** Engineering graduates with 2-3 years experience in fluid flow. English. **Deadline for application:** 2 months before commencing date. **Fees:** $US 1,500 per week.

**Organizer:** Fluid Control Research Institute  
Palghat 678 623, India

Foundation course for railway managers/engineers

**Short description:** Railway history and organization, finance and railway accounts, civil engineering, traffic transportation, electrical engineering, personnel management, law, mechanical engineering, railway operations, signalling and telecommunications engineering, material management, statistics. **Commencing date:** To be arranged. **Duration:** 12 weeks. **Qualifications:** Managers/engineers freshly inducted in railroads. English. **Deadline for application:** 2 months before commencing date. **Fees:** To be arranged.

**Organizer:** RITES  
New Delhi, India

**Contact address:**  
Group General Manager (Training)  
New Delhi House  
27 Barakhamba Road  
New Delhi 110 001, India

**Venue:** Railway Staff College  
Vadodara, India

Geotechnical investigation and foundation design for railways

**Short description:** Mineralogy, consolidation, shear strength, geotechnical investigation, bearing capacity of soil, stress distribution, slope stability analysis, shallow, well and pile foundations, geotechnical software. **Commencing date:** To be arranged. **Duration:** 3 weeks. **Qualifications:** Engineers with 5-6 years of experience. English. **Deadline for application:** 2 months before commencing date. **Fees:** To be arranged.
Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakambha Road
New Delhi 110 001, India

Venue: Indian Railways Institute of Civil Engineering
Pune 411 001, India

Induction course for railway managers/engineers

Short description: Electrical engineering, financial management, human resource management, mechanical engineering, civil engineering, operation and commercial management, signalling and telecommunications engineering, material management, quantitative techniques, law, computer applications. Commencing date: To be arranged. Duration: 12 weeks. Qualifications: Managers/engineers with 2-3 years of experience in railroads. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakambha Road
New Delhi 110 001, India

Venue: Railway Staff College
Vadodara, India

Industrial engineering

Short description: Shop layout and material handling, work study, material management, operation planning, scheduling and control, quality control, value engineering, operation management, industrial engineering, investment, maintenance, job evaluation, grievance handling, computer applications. Commencing date: To be arranged. Duration: 4 weeks. Qualifications: Engineers/managers with 14-18 years of experience. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakambha Road
New Delhi 110 001, India

Venue: Railway Staff College
Vadodara, India

Inspector of works

Short description: General rules, building materials, carpentry, use of levelling instruments, distribution of labour, preparation of pay sheets, leave and pass rules, discipline and appeal rules, issue of stores, upkeep of stores and ledgers, monthly stores, returns,
preparation of work orders and contractors' bills; measurements, requirement of labour and materials, preparation of completion reports, maintaining account of expenditures.

Commencing date: To be arranged. Duration: 26 weeks. Qualifications: Senior staff with 5 years of experience. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

Venue:
Zonal Training School
Western Railway
Udaipur 313 001, India

Modern railway track technology

Short description: Bridge codes and drawings, steel as structural material, concrete and welding technology, advanced structural analysis, design in steel/RCC/PSC/composite construction, geology, foundation and bridge substructures, fabrication, erection and testing of bridges, masonry arches, hydrology, seismic analysis and protection of bridges, computer application in bridge technology.

Commencing date: To be arranged. Duration: 13 weeks. Qualifications: Engineers/managers of civil discipline with 1-5 years of experience. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

Venue:
Indian Railways Institute of Civil Engineering
Pune 411 001, India

Permanent way Inspectors

Short description: Duties of permanent way inspectors, mates, keymen, gangmen; maintenance of permanent way and renewals, curved track and realignment of curves; inspection and maintenance of bridges, tunnels, turn-tables and weigh-bridges; rivers and floods, pre-monsoon measures, accidents and breaches, patrolling of tracks, working of trolleys, ballast trains; engineering work in electrified areas.

Commencing date: To be arranged. Duration: 26 weeks. Qualifications: Senior staff of permanent way, with 5 years of experience. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India
Professional course (phase-I) for mechanical engineers

**Short description:** Advanced coverage of: overview of railways and role of the mechanical branch; energy conservation; workshop manufacturing suspense account; future trends in diesel locomotive development; depot layout including management and equipment; hydraulic locomotives; brake systems; fuel economy; trouble shooting; non schedule repair analysis; load testing; lube oil and rubber testing; wagon and wagon bogie design; coach and bogie design; air brake systems; design of special-purpose stock; rail/wheel interaction; shop layout; rationalization and work shop modernization; introduction to NC/CNC machines; metrology; wheel shop management; computerized management information systems. **Commmencing date:** To be arranged. **Duration:** 10 weeks. **Qualifications:** Mechanical engineers. English. **Deadline for application:** 2 months before commencing date. **Fees:** To be arranged.

**Organizer:** RITES  
New Delhi, India  
**Contact address:**  
Group General Manager (Training)  
New Delhi House  
27 Barakhamba Road  
New Delhi 110 001, India

**Venue:** Indian Railways Institute of Mechanical and Electrical Engineering  
Jamalpur, India

Professional course (phase-II) for mechanical engineers

**Short description:** Advanced coverage of: railway transport economics; training management; corporate planning; inventory management and store procedures; operation information systems; planning for additional and replacement of rolling stock; quality assurance and management; industrial and labour relations; industrial health; material analysis and non destructive testing; diesel locomotives—engine and electrical components; operational control of locomotives; train lighting and air conditioning; couplers; train partings; production control organization and incentive schemes; latest developments in welding, foundry and cutting tool technology. **Commmencing date:** To be arranged. **Duration:** 12 weeks. **Qualifications:** Mechanical engineers. English. **Deadline for application:** 2 months before commencing date. **Fees:** To be arranged.

**Organizer:** RITES  
New Delhi, India  
**Contact address:**  
Group General Manager (Training)  
New Delhi House  
27 Barakhamba Road  
New Delhi 110 001, India

**Venue:** Indian Railways Institute of Mechanical and Electrical Engineering  
Jamalpur, India

Railroad business—orientation programme

**Short description** Accounts, civil engineering, commercial practices, electrical establishment, law, mechanical engineering, signalling and telecommunication, stores
management, general management. **Commencing date:** To be arranged. **Duration:** 8 weeks. **Qualifications:** Supervisory staff. English. **Deadline for application:** 2 months before commencing date. **Fees:** To be arranged.

**Organizer:**
RITEs
New Delhi, India

**Contact address:**
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

**Venue:**
Railway Staff College
Vadodara, India

**Railroad business—Initial course**

**Short description:** Mechanical engineering: motive power, non-destructive testing, derailments, impact of change in technology in management of repairs; electrical engineering: need for electrification, traction rules, OHE breakdown, AC/DC locomotives, EMUs, maintenance schedules, train lighting and airconditioning; management: finance, commercial practices, civil engineering, material management, signalling and telecommunication, computers and MIS, human resources development. **Commencing date:** To be arranged. **Duration:** 8 weeks. **Qualifications:** Executive staff. English. **Deadline for application:** 2 months before commencing date. **Fees:** To be arranged.

**Organizer:**
RITEs
New Delhi, India

**Contact address:**
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

**Venue:**
Indian Railways Institute of Mechanical and Electrical Engineering
Jamalpur, India

**Railroad business—for entry to administrative level**

**Short description:** Accounts and finance, investment, planning, marketing, public relations, computers, electrical engineering, mechanical engineering, project management, stocks management, general management. **Commencing date:** To be arranged. **Duration:** 8 weeks. **Qualifications:** Engineers/managers with 5-8 years of experience. English. **Deadline for application:** 2 months before commencing date. **Fees:** To be arranged.

**Organizer:**
RITEs
New Delhi, India

**Contact address:**
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

**Venue:**
Railway Staff College
Vadodara, India
Railroad business—for entry to administrative level

Short description: Corporate planning, quality assurance, disaster management, maintenance of rolling stock, computerization and MIS, material management, rubber technology, workshop accounts, 28 LAV brake systems, diesel locomotive design, roller bearings, shed layout and management, twin-pipe air brake system, train lighting, airconditioning, CNC machines and programming. Commencing date: To be arranged. Duration: 8 weeks. Qualifications: Engineers/managers of mechanical discipline with 9-13 years of experience. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

Venue: Indian Railways Institute of Mechanical and Electrical Engineering
Jamalpur, India

Railroad business—for entry to senior administrative level

Short description: Finance management and corporate finance management, public relations, computerization, industrial relations, law, operating strategies, inventory management, corporate planning. Commencing date: To be arranged. Duration: 8 weeks. Qualifications: Engineers/managers with 14-18 years of experience. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

Venue: Railway Staff College
Vadodara, India

Railway operations

Short description: Railway organization, railway historical development, permanent way, railway signalling, electrical/mechanical engineering, financial management, materials management, role of computers, communication skills, freight and pass operations, commercial practices, working of marshalling yards, railway safety organization, disaster management, corporate planning, transport pricing and costing. Commencing date: To be arranged. Duration: 12 weeks. Qualifications: Engineers/managers of traffic discipline with 9-13 years of experience. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

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Venue: Railway Staff College
Vadodara, India

Signal engineering

Short description: Theory: basic concepts in signalling, principles of interlocking, orthodox mechanical signalling, double-wire signalling, relays, track circuits, equipment and control circuits, signalling in electrified area, axle counters, route relay and panel interlocking, block signalling, signalling general and safety; practicals: mechanical signalling equipment, power signalling equipment, block signalling. Commencing date: To be arranged. Duration: 18 weeks. Qualifications: Engineers with 5-8 years of experience. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

Venue: Indian Railways Institute of Signal Engineering and Telecommunication
P.O. Lallaguda
Secunderabad 500 017, India

Signal Inspectors

Short description: Theory: basic concepts of signalling, principles of interlocking, orthodox signalling, double-wire signalling, signalling relays, track circuits, electrical signalling equipment, signalling in AC electrified area, axle counter, power supply arrangements, relay interlocking, block signalling, signalling general and safety, train traffic control, preparation of lock/dog charts, accounts; practicals: mechanical/electrical signalling laboratory, outdoor telecommunication, control laboratory, digital laboratory. Commencing date: To be arranged. Duration: 24 weeks. Qualifications: Graduate engineers. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

Venue: Indian Railways Institute of Signal Engineering and Telecommunication
P.O. Lallaguda
Secunderabad 500 017, India

Signal Inspectors

Short description: Basic concepts of signalling, principles of interlocking, orthodox signalling, double-wiring signalling, signalling relays, track circuits, equipment and control, electrical signalling, signalling in electrified area, power supply arrangements, relay interlocking, block signalling, general safety, preparation of lock/dog charts, stores
Commencing date: To be arranged. Duration: 18 weeks. Qualifications: Senior signalling staff with 5-8 years of experience. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

Venue: Indian Railways Institute of Signal Engineering and Telecommunication
P.O. Lallaguda
Secunderabad 500 017, India

Telecommunication Inspectors

Short description: Theory: basic concepts of signalling, passive devices, applied electronics, digital electronics and microprocessors, electronic measurements, line plant/power practices, public address system, telephony, telegraphy, carrier communications, train traffic control, propagation and antennas HF/VHF and microwave, stores, data communications: practicals: MW/HF/VHF outdoor telecommunication laboratory, microprocessor laboratory, electronic telephony laboratory. Commencing date: To be arranged. Duration: 24 weeks. Qualifications: Graduate engineers. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

Venue: Indian Railways Institute of Signal Engineering and Telecommunication
P.O. Lallaguda
Secunderabad 500 017, India

Train operations and management

Short description: Transportation management, freight and passenger train control, marshalling yards, wagon utilization, traffic projections, punctuality, time-tabling, signalling, permanent way, station working; passenger and freight traffic, revenue, passenger amenities, ticketless travelling, reservations, marketing and sales, booking of materials and claims, finance and general management. Commencing date: To be arranged. Duration: 13 weeks. Qualifications: Executive personnel of traffic discipline. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India
Advanced materials


Organizer:
Instituto de Soldadura e Qualidade
Rua Tomás de Figueiredo 16A
1500 Lisbon, Portugal

Industrial engineering

Short description: Theoretical and practical training in business and operational management; industrial organization; automation; human and industrial relations. Commencing date: November. Duration: 1 year. Qualifications: Bachelor’s degree. English and Portuguese. Deadline for application: March. Fees: Esc 2,500,000.

Organizer:
LNETI-CFT
Az. Lameiros à Est. Paço do Lumiar
1699 Lisbon, Codex, Portugal

Radiography (levels I and II)

Short description: Radiography for industrial workers according to national and international related standards. Commencing date: Level I: March; level II: November. Duration: Level I: 2 weeks; level II: 3 weeks. Qualifications: Technical personnel, engineers. Turkish. Deadline for application: 1 month before commencing date. Fees: —.

Organizer:
Istanbul Technical University
Nuclear Energy Institute
Ayazaga Tempus, Maslak
Istanbul, Turkey
2. INDUSTRIAL FUNCTIONS/FONCTIONS INDUSTRIELLES/
FUNCIONES INDUSTRIALES

Automation and data processing/Automatisation et traitement des
données/Automatización y procesamiento de datos

Acquisition of computer systems in developing countries

Short description: Studies and procedures necessary to undertake to judge the acquisition of computer systems. Commencing date: January, July. Duration: 2 months. Qualifications: Computer engineers, naval architects, marine engineers. English. Deadline for application: 3 months before commencing date. Fees: US 10,000 (including accommodation and meals).

Organizer: Alexandria Shipyard
Information Systems and Computer Centre
Gate No. 36, Kabbery
Alexandria, Egypt

Computer applications

Short description: Broad range of courses, including: basic and COBOL with EDP fundamentals; use of PCs; introduction to CAD; system analysis and design; word processing. Commencing date: To be arranged. Duration: 2-6 weeks. Qualifications: Bachelor's degree. English. Deadline for application: 3-6 months before commencing date. Fees: To be arranged.

Organizer: Computer Development Division
Department of Electronics
Government of India
A-Block, CGO Complex, Lodhi Road
New Delhi 110 003, India

Contact address:
Regional Computer Centre
SCO 114-116, Sector 17-B
Chandigarh 160 017, India

Computer applications in civil engineering

Short description: Concepts of and introduction to computers, computers in civil engineering, use of commercially available packages, demonstration of applications. Commencing date: To be arranged. Duration: 3 weeks. Qualifications: Engineers with 5-8 years of experience. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India
Computer applications in railways

Short description: Micro computer software (WS, dBase II plus, Lotus 1-2-3); local area network; computerized passenger reservation systems, production planning and scheduling, personnel information systems, container monitoring systems, freight operation information systems, good shed management systems, claims information-processing systems, global enquiry system, self-printing ticketing machines, traffic accounts, stores management systems, track management systems, terrain modelling, quality control, design track maintenance and machine monitoring system. Commencing date: To be arranged. Duration: 8 weeks. Qualifications: Graduates with computer background. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

Venue: Centre for Railway Information Systems (CRIS)
Chanakyapuri
New Delhi, India

Computer programming

Short description: Concepts of computers, computerized management systems, use of computers for managerial efficiency and effectiveness. Commencing date: To be arranged. Duration: 4 weeks. Qualifications: Engineers/managers with 5-8 years of experience. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

Venue: Railway Staff College
Vadodara, India

Business equipment and computers

Short description: Courses on: computer system application; advance programming; computer maintenance; digital equipment servicing; photocopier maintenance; word processing; assembly language programming. Commencing date: January. Duration: 1 week-1 1/2 months. Qualifications: Professional qualifications. English. Deadline for application: To be arranged. Fees: To be arranged.

Organizer: Office of Manpower Skills Development (OMSD)
National Manpower and Youth Council
Taguig, Metro Manila, Philippines
Bureautique — outils informatiques du cadre


Organisateur : CEPETEDE
B.P. 989
Kinshasa, Zaïre

Energy/Energie/Energía

Energy saving and conservation in industry


Organizer: Tabin Institute for Metallurgical Studies (TIMS)
P.O. Box 109
Helwan
11421 Cairo, Egypt

Industrial design/Design industriel/Diseño industrial

Engineering design

Short description: Design of equipment and machinery for the agricultural, construction and manufacturing sectors. Commencing date: To be arranged. Duration: 2 weeks-6 months. Qualifications: Bachelor’s degree in mechanical engineering or equivalent, with 3 years of experience. English. Deadline for application: —. Fees: To be arranged.

Organizer: Engineering Design and Tool Centre
P.O. Box 41638
Addis Ababa, Ethiopia

Industrial Information officers

Organizer: Institute for Small-Scale Industries
University of the Philippines
E. Virata Hall, E. Jacinto Street
UP Campus
Diliman, Quezon City 1101, Philippines

Technical Information for Industry


Organizer: LNETI-CFI
Az. Lameiros à Est. Paço do Lumiar
1699 Lisbon, Codex, Portugal

Industrial planning and programming/
Planification et programmation industrielles/
Planeamiento y programación industrial

Manpower research

Short description: Techniques of employment and manpower planning, its linkages with economic and educational planning. Commencing date: January. Duration: 8 weeks. Qualifications: Graduate level. English. Deadline for application: 1 week before commencing date. Fees: Rs 12,000.

Organizer: Institute of Applied Manpower Research
Indraprastha Estate, Mahatma Gandhi Marg
New Delhi 110 002, India

Regional industrial development


Organizer: Institute for Small-Scale Industries
University of the Philippines
E. Virata Hall, E. Jacinto Street
UP Campus
Diliman, Quezon City 1101, Philippines

Investment promotion and industrial financing/
Promotion des investissements et financement industriel/
Promoción de las inversiones y financiación industrial

Feasibility studies and industrial economics

Short description: Basic concepts, main theoretical aspects, application in industry, field training. Commencing date: To be arranged. Duration: 2-4 weeks. Qualifications:

Organizer: Tabbin Institute for Metallurgical Studies (TIMS)
           P.O. Box 109
           Helwan
           11421 Cairo, Egypt

**Project feasibility studies (COMFAR reporting technology)**

**Short description.** Economic appraisals, management appraisals, technical appraisals, using computers. Commencing date: August. Duration: 4 weeks. Qualifications: First degree in economics or social sciences or equivalent, project officers. English. Deadline for application: June. Fees: $US 3,500 (including board and lodging).

Organizer: The Secretary
           National Investment Bank
           P.O. Box 3726
           Accra, Ghana

**Financial management**

**Short description.** Financial environment and strategy, budgeting system and expenditure control, financial performance analysis, cash flow and funds, flow techniques, investment decisions, working capital management, railway statistics, stores suspense and stores budgeting, traffic book and earnings, traffic costing, role of computers in financial management. Commencing date: To be arranged. Duration: 4 weeks. Qualifications: Managers of finance discipline with 9-13 years of experience. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
           New Delhi, India
           Contact address:
           Group General Manager (Training)
           New Delhi House
           27 Barakhamba Road
           New Delhi 110 001, India

Venue: Railway Staff College
       Vadodara, India

**Project management**

**Short description.** Project selection, planning, organization, monitoring and management; project leadership; PERT/CPM; project management information system. Commencing date: To be arranged. Duration: 6 weeks. Qualifications: Engineers/managers with 5-8 years of experience. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
           New Delhi, India
           Contact address:
           Group General Manager (Training)
           New Delhi House
           27 Barakhamba Road
           New Delhi 110 001, India

Venue: Railway Staff College
       Vadodara, India
Project management

**Short description:** Practical application of modern tools and techniques of planning, scheduling, monitoring and control of projects. **Commencing date:** To be arranged. **Duration:** 3 weeks. **Qualifications:** Senior and middle management staff. English. **Deadline for application:** —. **Fees:** Rs 1,200 per week.

**Organizer:**
Director, Training and Sponsored Research
Research and Development Organization
Ministry of Defence
Sena Bhawan, ‘B’ Wing
DHQ PO New Delhi 110 011, India

Etude de projets industriels

**Brève description :** Identification, conception, préparation et évaluation des projets industriels. **Début du cours :** A arranger. **Durée :** 1-2 mois. **Qualifications :** Français. **Date limite d’inscription :** —. **Droits d’inscription :** A arranger.

**Organisateur :**
Ministère de la Promotion économique (DIPIP)
B.P. 480
Niamey, Niger

Banca de desarrollo y financiamiento del desarrollo

**Breve descripción:** Fortalecer la capacidad técnica y gerencial de las instituciones financieras con el conocimiento de estrategias de desarrollo aplicadas en América Latina; modernizar la banca de desarrollo para que alcance altos niveles de eficiencia que mejore su función promotora del desarrollo e instrumento financiero del mismo. **Fecha de iniciación :** Septiembre. **Duración :** 5 semanas. **Calificaciones :** Profesionales, ejecutivos en actual ejercicio con experiencia en instituciones financieras. Español. **Fecha límite de inscripción :** 2 semanas. **Derechos de inscripción :** $US 1,000.

**Organizador :**
Asociación Latinoamericana de Instituciones Financieras de Desarrollo (ALIDE)
Av. Paseo de la República 3211
Lima 100, Perú

Project study preparation

**Short description:** Techniques for the identification of venture opportunities and the preparation of a project feasibility study. **Commencing date:** July. **Duration:** 8 weeks. **Qualifications:** Bachelor’s degree or equivalent. English. **Deadline for application:** April. **Fees:** $US 4,600.

**Organizer :**
Institute for Small-Scale Industries
University of the Philippines
E. Virata Hall, E. Jacinto Street
UP Campus
Diliman, Quezon City, 1101 Philippines

Analyse, évaluation et suivi de projets

**Brève description:** Comptabilité nationale, analyse financière et économique de projets, approches sectorielles, établissement des dossiers de factibilité, outils de programmation, suivi et contrôle, informatique et projets. **Début du cours :** Août. **Durée :** 17 semaines. **Qualifications :** Maîtrise des "Techniques quantitatives de gestion". Français. **Date limite d’inscription :** 2 mois avant le début du cours. **Droits d’inscription :** $US 4 500.
Project preparation and appraisal including UNIDO COMFAR software

Short description: Preparation and appraisal of industrial projects; application of computers; case studies. Commencing date: To be arranged. Duration: 3 weeks. Qualifications: Graduate economists or engineers involved in project preparation and appraisal. English. Deadline for application: 1 month before commencing date. Fees: $US 1,000.

Organizer: Department of Investment Planning and Research
National Commission for Development Planning
P.O. Box 50268
Lusaka, Zambia

Maintenance and repair/Entretien et réparation/
Mantenimiento y reparación

Repair and maintenance of medical equipment


Organizer: Regional Training Centre
Higher Technical Institute
P.O. Box 2423
Nicosia, Cyprus

Industrial maintenance

Short description: Basic principles of planned maintenance, covering all aspects of industrial maintenance activities, with emphasis on the metal-working industry (foundry machines and equipment, cutting and forging equipment, heat-treatment furnaces, electrical and electronic devices). Commencing date: To be arranged. Duration: 4 months. Qualifications: Degree in mechanical engineering with 2 years, or diploma in mechanical engineering with 4 years of relevant experience. English. Deadline for application: 4 months before commencing date. Fees: To be arranged.

Organizer: Akaki Spare Parts and Hand Tools Factory
P.O. Box 7334
Addis Ababa, Ethiopia

Managed maintenance

Short description: Planned maintenance systems in industries, related information flow and follow-up systems, inventory control of spare parts, fabrication and reconditioning of spare parts. Commencing date: To be arranged. Duration: 3 months. Qualifications: Bachelor's degree in mechanical engineering or equivalent, with 2 years of relevant experience. English. Deadline for application. Fees: To be arranged.
Organizer: National Metal Works Corporation
P.O. Box 2447
Addis Ababa, Ethiopia

Maintenance planning and scheduling

Short description: Planning requirements for manpower, material and equipment; work scheduling. Commencing date: June. Duration: 3 weeks. Qualifications: Bachelor’s degree in mechanical, electrical or civil engineering. English. Deadline for application: To be arranged. Fees: $US 1,500.

Organizer: The Arab Potash Co. Ltd.
P.O. Box 1470
Amman, Jordan

Management and industrial administration/
Gestion et administration industrielle/
Gestión y administración industrial

Mejora de la calidad


Organizador: Escuela Superior de Cuadros del Ministerio de la Industria Básica
Carretera de Vento, km 10 ½
Municipio Boyeros
Ciudad Habana, Cuba

Management

Short description: Sound framework of concepts, analytical methods and techniques which, coupled with company visits and on-the-job training, will equip participants to execute effectively the usual duties of “assistant general manager” or “functional manager”. Commencing date: September. Duration: 11 months. Qualifications: First university degree in any field, or equivalent. English. Deadline for application: May. Fees: £C 1,000.

Organizer: The Mediterranean Institute of Management
P.O. Box 536
Nicosia, Cyprus

Advanced management and workstudy

Short description: Workstudy and allied managerial techniques; problem analysing and problem solving skills. Commencing date: To be arranged. Duration: 12 weeks. Qualifications: English. Deadline for application: —. Fees: Rs 1,200 per week.

Organizer: Director, Training and Sponsored Research
Research and Development Organization
Ministry of Defence
Sena Bhawan, ‘B’ Wing
DHQ PO New Delhi 110 011, India
Management and workstudy

Short description: Workstudy and allied management techniques, with a view to enhancing participants’ contribution as a team member. Commencing date: To be arranged. Duration: 5 weeks. Qualifications: English. Deadline for application: —. Fees: Rs 1,200 per week.

Organizer: Director, Training and Sponsored Research Research and Development Organization Ministry of Defence Sena Bhawan, ‘B’ Wing DHQ PO New Delhi 110 011, India

Management programme for middle-level officers


Organizer: Institute of Applied Manpower Research Indraprastha Estate, Mahatma Gandhi Marg New Delhi 110 002, India

Materials management


Organizer: RITES New Delhi, India
Contact address: Group General Manager (Training) New Delhi House 27 Barakhamba Road New Delhi 110 001, India
Venue: Railway Staff College Vadodara, India

R and D management

Short description: Modern concepts of R and D management; modern management and interpersonal skills for effective management of large multidisciplinary projects. Commencing date: April, September. Duration: 4 weeks. Qualifications: Middle level scientists. English. Deadline for application: —. Fees: Rs 1,200 per week.

Organizer: Director, Training and Sponsored Research Research and Development Organization Ministry of Defence Sena Bhawan, ‘B’ Wing DHQ PO New Delhi 110011, India
Senior management development programme

**Short description:** Finance management, investment planning, marketing, public relations, computerization, industrial relations, law, modern operating strategies, stores management, corporate planning, manpower planning, delegation, quality management, communication skills, time management, role of managers, MBO, creative thinking, decision-making. **Commencing date:** To be arranged. **Duration:** 6 weeks. **Qualifications:** Engineers/managers with 19-23 years of relevant experience. English. **Deadline for application:** 2 months before commencing date. **Fees:** To be arranged.

**Organizer:** RITES
New Delhi, India

**Contact address:**
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

**Venue:** Railway Staff College
Vadodara, India

Work study

**Short description:** Recording and charting techniques of work study. **Commencing date:** November. **Duration:** 5 weeks. **Qualifications:** English. **Deadline for application:** —. **Fees:** Rs 1,200 per week.

**Organizer:** Director, Training and Sponsored Research
Research and Development Organization
Ministry of Defence
Sena Bhawan, 'B' Wing
DHQ PO New Delhi 110 011, India

Production management

**Short description:** Policy to improve supervision, productivity and production planning. **Commencing date:** June. **Duration:** 2-3 weeks. **Qualifications:** Bachelor's degree in chemical engineering. English. **Deadline for application:** —. **Fees:** $US 1,500.

**Organizer:** The Arab Potash Company Ltd.
P.O. Box 1470
Amman, Jordan

Productivity improvement through work study

**Short description:** Implementation of productivity improvement programmes using work study techniques; analytical skills for the solution of production problems. **Commencing date:** To be arranged. **Duration:** 3 months. **Qualifications:** English. **Deadline for application:** 1 week before commencing date. **Fees:** $US 2,000.

**Organizer:** National Productivity Centre
P.O. Box 64
46904 Petaling Jaya, Malaysia

Négociation de contrats et passation de marchés

**Brefe description:** Initiation aux démarches, techniques et aspects juridiques de négociation de contrats et passation de marchés. **Début du cours:** A l'arranger. **Durée :**
Industrial productivity

Short description: Introduction to workstudy and its applications; process analysis, maintenance, industrial safety and case studies aimed at increasing productivity. Comminging date: To be arranged. Duration: 4 weeks. Qualifications: University graduates or equivalent, with 3 years industrial or training experience. English. Deadline for application: February. Fees: $US 2,200 (including accommodation and meals).

Organizer: Industrial Training Fund
P.O. Box 2199
Jos, Plateau State, Nigeria

Management training programme


Organizer: Middle East Technical University
Department of Management
Ankara, Turkey

Gestion d'entreprise


Organisateur : CEPETEDE
B.P. 989
Kinshasa, Zaïre

Techniques quantitatives de gestion


Organisateur : CEPETEDE
B.P. 989
Kinshasa, Zaïre
Quality control and standardization/
Contrôle de la qualité et normalisation/
Control de calidad y normalización

Production quality control

Short description: Production handling and control, efficient quality and performance.  

Organizer:  The Arab Potash Co. Ltd.
P.O. Box 1470
Amman, Jordan

Small-scale industries and entrepreneurship/
Petites industries et entrepreneurs/
Pequeñas industrias y los empresarios

Promoción de la formación profesional con la pequeña y mediana empresa


Organizador:  Oficina de Cooperación Técnica Internacional
Calle 57 No. 8-69, Torre Central, Piso 5
Bogotá, Colombia

Lugar:  Centro Colombo Alemán
Barranquilla
Regional Atlántico, Colombia

Micro enterprise development in rural areas


Organizer:  Entrepreneurship Development Institute of India
Bhat, P.O. Chandkheda 382 424
Dist. Gandhinagar, Gujarat, India

Designing and implementing entrepreneurship programmes for women

Development and management of cooperatives


Organizer: Institute for Small-Scale Industries
University of the Philippines
UP Campus
Diliman, Quezon City 1101, Philippines

Evaluation, appraisal and monitoring of small and medium-size enterprise projects


Organizer: Institute for Small-Scale Industries
University of the Philippines
UP Campus
Diliman, Quezon City 1101, Philippines

Industrial automation and instrumentation for small and medium-size enterprises


Organizer: Institute for Small-Scale Industries
University of the Philippines
UP Campus
Diliman, Quezon City 1101, Philippines

Industrial extension officers

Short description: Competencies and skills for rendering effective extension and consultancy services to entrepreneurs. Commencing date: October. Duration: 5 weeks. Qualifications: Bachelor’s degree or equivalent, extension officers and workers. English. Deadline for application: July. Fees: $US 4,050.

Organizer: Institute for Small Scale Industries
University of the Philippines
UP Campus
Diliman, Quezon City 1101, Philippines

Management consultancy

Short description: Competencies and skills for providing effective consultancy services to small enterprises. Commencing date: July. Duration: 20 weeks. Qualifications: Bachelor’s degree or equivalent, extension officers, consultants. English. Deadline for application: May. Fees: $US 7,475.

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Small Industry Information Management

Short description: Competencies and skills for providing industrial information to entrepreneurs through proper management of information. Commencing date: September. Duration: 8 weeks. Qualifications: Bachelor’s degree or equivalent; information officers/processors. English. Deadline for application: July. Fees: $US 4,600.

Organizer: Institute for Small-Scale Industries  
University of the Philippines  
UP Campus  
Diliman, Quezon City 1101, Philippines

Small Industry Trainers

Short description: For industrial extension officer and provincial industrial officer of developing countries in Asia. Commencing date: April. Duration: 6 weeks. Qualifications: Bachelor’s degree in engineering, economics, business administration or other relevant area. English. Deadline for application: January. Fees: —.

Organizer: The SITE Project  
Department of Industrial Promotion  
Ministry of Industry  
Rama 6 Road  
Bangkok 10400, Thailand

Trainer Development/Formation de formateurs/Perfeccionamiento de profesionales de capacitación

Entrepreneur Trainers/Motivators’ Programme for Developing Countries

Short description: Knowledge, skills and attitudes for entrepreneur trainers/motivators (ETMs) enabling them to carry out effectively activities related to entrepreneurship development. Commencing date: January. Duration: 6 weeks. Qualifications: English. Deadline for application: 6 weeks before commencing date. Fees: $US 3,500 (including accommodation and meals).

Organizer: Entrepreneurship Development Institute of India  
Bhat, Chandkheda 382 424  
Dist. Gandhinagar, Gujarat, India

Training of Trainers

Short description: Dynamics of training process, managing of training, assessment of training needs, communication and audio-visual aids in training, training methods, curriculum, preparation of training material, trainer’s role and skills, evaluation; hands-on experience in preparation of curriculum and training material. Commencing date: To be arranged. Duration: 6 weeks. Qualifications: Engineers/managers with 5-8 years of experience. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES  
New Delhi, India
Management of vocational training institutes

Short description: Management of a training centre; courses and seminars; recent methods and management techniques for the improvement of the institution; coordination of the centre's activities with other local and foreign institutions. Commencing date: June. Duration: 3-4 weeks. Qualifications: Bachelor's degree in chemical or mechanical engineering. English. Deadline for application: To be arranged. Fees: US$ 1,500.

Organizer: The Arab Potash Co. Ltd. P.O. Box 1470 Amman, Jordan

Advanced course for training personnel

Short description: Training in perspective; systematic training and its benefits; policy, plans and programmes; interview techniques; identification of training needs; introduction to consultancy; report writing; training implementation and validation. Commencing date: To be arranged. Duration: 4 weeks. Qualifications: University degree or equivalent with 5 years of relevant experience. English. Deadline for application: February. Fees: US$ 2,200 (including accommodation and meals).

Organizer: Industrial Training Fund P.O. Box 2199 Jos, Plateau State, Nigeria

Trainers for entrepreneurial competencies development

Short description: Upgrading of training skills to design and implement training programmes aimed at developing entrepreneurial competencies. Commencing date: June. Duration: 4 weeks. Qualifications: Bachelor's degree or equivalent; development officers or trainers. English. Deadline for application: April. Fees: US$ 4,200.

Organizer: Institute for Small-Scale Industries University of the Philippines E. Virata Hall, E. Jacinto Street UP Campus Diliman, Quezon City 1101, Philippines

Trainers for entrepreneurship development

Short description: Upgrading of training skills to design, implement, monitor and control entrepreneurship development programmes; updating trainers on the latest approaches and methods in entrepreneurship development. Commencing date: September. Duration: 10 weeks. Qualifications: Bachelor's degree or equivalent; development officers or trainers. English. Deadline for application: June. Fees: US$ 5,600.

Organizer: Institute for Small Scale Industries University of the Philippines E. Virata Hall E. Jacinto Street UP Campus Diliman, Quezon City 1101, Philippines
Chapter III. Other training opportunities and short courses

Chapitre III. Autres possibilités de formation et sessions d'étude de brève durée

Capítulo III. Otras oportunidades de capacitación y cursos cortos

A. DEVELOPED COUNTRIES AND AREAS/
PAYS ET ZONES DÉVELOPPÉS/
PAÍSES Y ZONAS DESARROLLADOS

Aqueous systems: thermodynamic modelling for hydrometallurgy

_Short description:_ Leaching; tailings disposal; aqueous geochemical systems. _Commencing date:_ April. _Duration:_ 3 days. _Qualifications:_ English. _Deadline for application:_ March. _Fees:_ $A 1,050.

_Organizer:_
Australian Mineral Foundation
63 Conyngham Street
Glenside, South Australia 5065, Australia

Chemistry and properties of metallurgical slags

_Short description:_ Physical and chemical properties of slags; mixing, structure, basicity, sulphidic and oxygen-rich slags; phase diagrams and modelling. _Commencing date:_ March. _Duration:_ 3 days. _Qualifications:_ English. _Deadline for application:_ February. _Fees:_ $A 1,300.

_Organizer:_
Australian Mineral Foundation
63 Conyngham Street
Glenside, South Australia 5065, Australia

Chemistry and technology of cements

_Short description:_ Basic cement chemistry; raw material composition; kiln and cooler types; grinding; case studies. _Commencing date:_ October. _Duration:_ 6 days. _Qualifications:_ English. _Deadline for application:_ September. _Fees:_ $A 1,300.

_Organizer:_
Australian Mineral Foundation
63 Conyngham Street
Glenside, South Australia 5065, Australia

Management of biotechnology research and development

_Short description:_ A course in two consecutive modules designed for senior research managers from developing countries. The first module covers management topics such as research leadership, team building, strategic thinking, marketing and financing R and D, science policy. The second module focuses on technical and related aspects of biotechnology and includes plant, animal and microbial topics as well as issues such as release of genetically engineered organisms. Both modules include visits to research institutions; modules may be taken independently. _Commencing date:_ July. _Duration:_
2 weeks for each module. **Qualifications:** Science degree, research experience. English. **Deadline for application:** April. **Fees:** $A 3,500 per module, $A 6,500 for both (including accommodation and meals).

**Organizer:** CSIRO International Training Officer  
P.O. Box 225  
Dickson ACT 2602, Australia

**Venue:** Queensland University  
St. Lucia, Brisbane, Australia

**Mining Industry**

**Short description:** Short courses on: exploration management; management for geoscientists, engineers; economic guidelines for mineral exploration; drilling and blasting for open-pit mines; engineering logging of drill core; truck and loader mining systems; mine ventilation. **Commencing date:** May-November. **Duration:** 3-14 days. **Qualifications:** English. **Deadline for application:** 1 month before commencing date. **Fees:** To be arranged.

**Organizer:** Australian Mineral Foundation  
63 Conyngham Street  
Glenside, South Australia 5065, Australia

**Temperature measurement**

**Short description:** Physics of temperature measurement, modelling of temperature distributions, thermocouples and their calibration, instrumentation and control, unconventional pyrometry, laboratory management, laboratory accreditation. **Commencing date:** November. **Duration:** 2 weeks. **Qualifications:** Degree in engineering or science. English. **Deadline for application:** August. **Fees:** $A 2,800 (including accommodation and meals).

**Organizer:** CSIRO International Training Officer  
P.O. Box 225  
Dickson ACT 2602, Australia

**Venue:** CSIRO Division of Applied Physics  
Lindfield, Sydney, Australia

**Formation des contremaîtres et des ingénieurs à l’élaboration des modes opératoires**

**Brève description :** Connaissances théoriques et techniques nécessaires à l’élaboration des modes opératoires, ces derniers étant non seulement la clef de l’utilisation correcte de l’équipement et de sa longévité mais également l’outil de base de la formation des contremaîtres et ingénieurs. **Début du cours:** Toute l’année sauf de juillet au 15 septembre. **Durée :** —. **Qualifications:** Ingénieur ou contremaître possédant une expérience de plusieurs années dans sa spécialisation de son secteur d’activité ou sa profession. Français, anglais. **Date limite d’inscription :** 3 mois avant le début du cours. **Droits d’inscription :** A arranger.

**Organisateur :** International Executives Benelux SA (INTEX)  
5, rue de la Science  
1040 Bruxelles, Belgique

**Gestion de production**

**Brève description :** Statistiques de ventes et de production; prévision de production; planning et contrôle de la production; contrôle des stocks; stockage et manutention.

Organisateur : Helping SA
38, avenue Montjoie
1180 Bruxelles, Belgique

Mécanique générale


Organisateur : Spoorwegmaterieel en Metaalconstructies
Kaardifkstraat 5
8200 Bruges, Belgique

Programmes de formation à la carte


Organisateur : IBF
63, rue Montoyer
1040 Bruxelles, Belgique

 Sélection et formation de concepteurs de manuels


Organisateur : International Executives Benelux SA (INTEX)
5, rue de la Science
1040 Bruxelles, Belgique

Transport et distribution


Organisateur : Helping SA
38, avenue Montjoie
1180 Bruxelles, Belgique
Applied physics

Short description: Short courses on: liquid penetrants; magnetic particle; weld inspection and quality control; radiography; ultrasonics. Commencing date. Throughout the year. Duration: 5-10 days. Qualifications: English. Deadline for application: To be arranged. Fees: To be arranged.

Organizer: NDE Institute of Canada
135 Fennell Avenue West
Hamilton, Ontario L8N 3T2, Canada

Natural sorbents for environmental engineering


Organizer: UNIDO Czechoslovakia Joint Programme for Cooperation
Non metallic Industries
Pražská 12
305 11 Plzeň, Czechoslovakia

Fifth PTS de-inking symposium


Organizer: Papiertechnische Stiftung
Hess Str. 130 a
8000 München 40, Germany

Upgrading of skills in different industrial activities

Short description: Short courses on: quality control and assurance; measuring techniques for different mechanical magnitudes; three coordinate measuring techniques; measuring techniques for electrical magnitudes; analytical chemistry; electronic in vehicles; testing of different materials; modern electronics; microprocessor technique; computer languages and applications; data processing; standardization; memory programmable circuits. Commencing date. To be arranged. Duration: 1-10 days. Qualifications: Professional qualifications. German, English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: Deutsche Technische Akademie GmbH
Botickerstrasse 2
Postfach 16 70
3300 Helmstedt, Germany

Frequency management and planning

Short description: National and international frequency management and planning. Commencing date: January. Duration: 2 weeks. Qualifications: English. Deadline for application: 1 month before commencing date. Fees: To be arranged.

Organizer: TELECON Ltd
Aleksanterinkatu 15 B
00100 Helsinki, Finland
CAO-CFAO/Production Intégrée


Organisateur : IUT de Saint-Denis
73206 Saint-Denis, Cedex 01, France

Classement et réception des bois tropicaux


Organisateur : INB
6, avenue de Saint-Mandé
75012 Paris, France

Construction en blocs de terre comprimée


Organisateur : CRATerre — EAG
B.P. 2636
38036 Grenoble, Cedex 2, France

Lieu : Ecole d’Architecture de Grenoble
10, galerie des Baladins
38100 Grenoble, France

Qualité des aliments — microbiologie-hygiène


Organisateur : Institut Pasteur de Lille
B.P. 245
59019 Lille, Cedex, France

Analytical measurements in agriculture and food industry

Short description: NIR/NIT quick analysers, vitality analysers, pesticide determination by HPLC and overpressured liquid chromatography (OPLC). Commencing date: April. Duration: 3-5 days. Qualifications: Chemical, chemical engineers. English. Deadline for application: 3 months before commencing date. Fees: $US 50-60 per day.

Organizer: Factory of Laboratory Instruments Co. Ltd.
P.O. Box 33
1450 Budapest, Hungary
Managing Instrumentation service centres

Short description: Effective and economic utilization of instruments through national instruments and measuring technique centres, such as the Instrument and Measuring Technique Service of the Hungarian Academy of Science. Commencing date: November. Duration: 2 weeks. Qualifications: Degree in engineering or Bachelor of Science; at least 2 years of experience. English. Deadline for application: April. Fees: $US 2,500 per week (including accommodation and meals).

Organizer: Instrument and Measuring Technique Service of the Hungarian Academy of Science (MTA-MMSZ)
P.O. Box 58
Szakasits A. út 59-61
1052 Budapest, Hungary

In collaboration with
Organization for International Technical Scientific Co-operation (TESCO)
P.O. Box 5/101
Rosenberg utca 21
1367 Budapest, Hungary

Industrie textile


Organisateur : CERIT Spa.
Rue Villanova di Sotto 9/A
33170 Pordenone, Italie

Automation for small and medium industries

Short description: Knowledge and techniques for designing and installing automated production systems for small and medium industries. Commencing date: To be arranged. Duration: 2 weeks. Qualifications: English. Deadline for application: 3 months before commencing date. Fees: $US 50.

Organizer: Asian Productivity Organization
8-4-14, Akasaka, Minato-ku
Tokyo 107, Japan

Communication within enterprises


Organizer: Asian Productivity Organization
8-4-14, Akasaka, Minato-ku
Tokyo 107, Japan

Creativity, management of Innovation and R&D

Short description: Stimulate efforts in creative and innovative management; identify critical issues that will help and guide R&D effort, creativity and innovation. Commencing
**December.** Duration: 2 weeks. Qualifications: English. Deadline for application: 3 months before commencing date. Fees: $US 50.

**Organizer:** Asian Productivity Organization 8-4-14, Akasaka, Minato-ku Tokyo 107, Japan

**Distribution**

**Short description:** Improve efficiency in marketing and distribution of consumer products.

Commencing date: July. Duration: 1 week. Qualifications: English. Deadline for application: 3 months before commencing date. Fees: $US 50.

**Organizer:** Asian Productivity Organization 8-4-14, Akasaka, Minato-ku Tokyo 107, Japan

**Hazardous wastes**

**Short description:** Hazardous waste problems in Asian countries: policies and measures for hazardous waste management, including waste minimization. Commencing date: To be arranged. Duration: 5 days. Qualifications: English. Deadline for application: 3 months before commencing date. Fees: $US 50.

**Organizer:** Asian Productivity Organization 8-4-14, Akasaka, Minato-ku Tokyo 107, Japan

**Informal sector**

**Short description:** The informal sector, its role and problems, incentives and limitations, experiences of MNCs government policies, role of voluntary organizations, recommendations for the development and enhancement of the sector. Commencing date: To be arranged. Duration: 2 weeks. Qualifications: English. Deadline for application: 3 months before commencing date. Fees: $US 50.

**Organizer:** Asian Productivity Organization 8-4-14, Akasaka, Minato-ku Tokyo 107, Japan

**Information technology applications in service industry**

**Short description:** Impact of information technology and scope for the application of information technology in the service sector. Commencing date: To be arranged. Duration: 2 weeks. Qualifications: English. Deadline for application: 3 months before commencing date. Fees: $US 50.

**Organizer:** Asian Productivity Organization 8-4-14, Akasaka, Minato-ku Tokyo 107, Japan

**Management**

**Short description:** Short courses on: banking management; human resource management and productivity; managing organizational change; strategic management. Commencing date: To be arranged. Duration: 2 weeks. Qualifications: English. Deadline for application: 3 months before commencing date. Fees: $US 50.
Management of energy demand

Short description: Energy security; economic competitiveness; environmental quality. 
Commencing date: To be arranged. Duration: 5 days. Qualifications: English. Deadline for application: 3 months before commencing date. Fees: $US 50.

Organizer: Asian Productivity Organization
8-4-14, Akasaka, Minato-ku
Tokyo 107, Japan

Materials recycling


Organizer: Asian Productivity Organization
8-4-14, Akasaka, Minato-ku
Tokyo 107, Japan

Office automation

Short description: Enable participants to plan the most appropriate office automation systems in their respective work stations. Commencing date: October. Duration: 2 weeks. Qualifications: English. Deadline for application: 3 months before commencing date. Fees: $US 50.

Organizer: Asian Productivity Organization
8-4-14, Akasaka, Minato-ku
Tokyo 107, Japan

Packaging design and engineering

Short description: Modern techniques, standards and codes of practice in packaging, improvement of packaging, especially for export. Commencing date: To be arranged. Duration: 2 weeks. Qualifications: English. Deadline for application: 3 months before commencing date. Fees: $US 50.

Organizer: Asian Productivity Organization
8-4-14, Akasaka, Minato-ku
Tokyo 107, Japan

Plant layout and materials handling

Short description: Improve the utilization of facilities and factory space through better layout and materials handling. Commencing date: August. Duration: 10 days. Qualifications: English. Deadline for application: 3 months before commencing date. Fees: $US 50.

Organizer: Asian Productivity Organization
8-4-14, Akasaka, Minato-ku
Tokyo 107, Japan
Productivity measurement, monitoring and analysis and subsectoral level


**Organizer:**
Asian Productivity Organization  
8-4-14, Akasaka, Minato-ku  
Tokyo 107, Japan

Productivity and wage income policy


**Organizer:**
Asian Productivity Organization  
8-4-14, Akasaka, Minato-ku  
Tokyo 107, Japan

Small-scale Industry

*Short description:* Short courses on: small industry development; human resources development for promotion of productivity; analysis of productivity problems. *Commencing date:* To be arranged. *Duration:* 5-10 days. *Qualifications:* English. *Deadline for application:* 3 months before commencing date. *Fees:* $US 50.

**Organizer:**
Asian Productivity Organization  
8-4-14, Akasaka, Minato-ku  
Tokyo 107, Japan

Urban industries and services


**Organizer:**
Asian Productivity Organization  
8-4-14, Akasaka, Minato-ku  
Tokyo 107, Japan

Basic risk analysis

*Short description:* Hazard identification techniques, failure frequencies, effect and consequence calculations, risk management, emergency management. *Commencing date:* To be arranged. *Duration:* 5 days. *Qualifications:* Professional qualifications. English. *Deadline for application:* To be arranged. *Fees:* To be arranged.

**Organizer:**
TNO Environmental and Energy Research  
Department of Industrial Safety  
P.O. Box 342  
7300 AH Apeldoorn, Netherlands

Handling and storage of agricultural products and minerals in ports and inland

*Short description:* Agribulk and mineral terminals: unloading/loading operations; storage; preservation of quality; maintenance and repair; safety; environmental aspects; information systems; financial and commercial aspects. *Commencing date:* Throughout the

Organizer: G.E.M. Consultants B.V.
P.O. Box 23055  
3001 KB Rotterdam, Netherlands

Hydraulics and pneumatics


Organizer: ROVC Industrial Education  
P.O. Box 117  
6710 BC Ede, Netherlands

Industrial and process engineering

Short description: Short courses on: ceramics/glass technology; chemical/process engineering; electronic design, engineering and manufacturing; mechanical/design engineering; petroleum technology; pharmaceutical technology; project management/cost engineering; technical management. Commencing date: To be arranged. Duration: 3-5 days. Qualifications: English. Deadline for application: 1 week before commencing date. Fees: To be arranged.

Organizer: The Center for Professional Advancement  
Oudezijds Voorburgwal 316A  
1012 GM Amsterdam, Netherlands

Industrial automation

Short description: Reading of all possible switching schemes and learning the functions of the components used in an installation; trouble shooting. Commencing date: April. Duration: 2 weeks. Qualifications: Engineers with a minimum of one year experience. English. Deadline for application: 2 months before commencing date. Fees: f. 2,400.

Organizer: ROVC Industrial Education  
P.O. Box 117  
6710 BC Ede, Netherlands

Project management and programme administration


Organizer: Management for Development Foundation (MDF) Management Courses  
Bosrand 28  
P.O. Box 430  
6710 BK Ede, Netherlands

Promoter course

Short description: International marketing; export marketing; marketing research and planning; packaging and transportation; quality control; product adaptation; costing and
pricing; negotiation techniques; promotion and publicity. Commencing date: January, June. Duration: 2 weeks. Qualifications: Bachelor's degree in economics, marketing, science or equivalent. English. Deadline for application: —. Fees: —.

Organizer: Centre for the Promotion of Imports from Developing Countries CBI
International Projects and Training Section
Beursgebouw, 5th floor, Beursplein 37
P.O. Box 36009
3001 DA Rotterdam, Netherlands

Structural packaging design

Short description: Characteristics of the product; elements of export packaging; international standards and regulations; importance of high-quality raw material; importance of product information to consumers. Commencing date: To be arranged. Duration: 1 week. Qualifications: English, French, German, Dutch. Deadline for application: 3 months before commencing date. Fees: To be arranged.

Organizer: POMIFER Trade Promotion
Burgemeester de Manlaan 21
4837 BN Breda, Netherlands

Textile finishing

Short description: Textile finishing processes: dying, printing, coating, washing, process control, environmental protection, energy conservation. Commencing date: To be arranged. Duration: From 1 week to several weeks, depending on the chosen subjects. Qualifications: Production managers. English. Deadline for application: —. Fees: To be arranged.

Organizer: TNO Centre for Textile Research
P.O. Box 6034
2600 JA Delft, Netherlands

Process metallurgy of aluminium


Organizer: Institute of Inorganic Chemistry
The Norwegian Institute of Technology
7034 Trondheim, Norway

Chemical analyses

Short description: Short courses on: instrumental analysis; gas chromatography; analysis of resins and polymers; FTIR and UV spectrophotometry; characterization of polymers by gel permeation chromatography and viscosimetric methods. Commencing date: February-May. Duration: 2 weeks. Qualifications: English, French. Deadline for application: 3 months before commencing date. Fees: To be arranged.

Organizer: Industrial Chemistry Research Institute
Rydygiera 8
01-793 Warsaw, Poland
Chromatographic analysis

Short description: Qualitative and quantitative analysis, with practical exercises.
Commencing date: March. Duration: 2-3 weeks. Qualifications: English, Polish, Russian. Deadline for application: 3 months before commencing date. Fees: To be arranged.

Organizer: Institute of Industrial Chemistry
Specialized Education Division
ul. Limanowskiego 23
02-943 Warsaw, Poland

Computer-aided modelling and simulation of power transmission, control and suspension systems

Short description: Modelling of dynamic systems, model representation formalisms, model validation and verification, computer-aided modelling and simulation, non-linear systems, bond graph, modal bond graph, differential equipment, macrostructure modelling, supporting algorithm and programs. Commencing date: To be arranged. Duration: 2 weeks. Qualifications: English, French. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: PIMB
CAE Center
ul. Kolejowa 57
01-210 Warsaw, Poland

Construction d'entrée d'air et manche d'entrée sous-sonique pour des moteurs à réaction


Organisateur: Institut de l'Aviation
Al. Krakowska 110/114
02-256 Varsovie, Pologne

Dynamics of structures and machines


Organizer: Institute of Mechanics and Design
Narbutta 85
02-524 Warsaw, Poland

Flexible operation of power units

Short description: Safe operating conditions: stress status in elements; permissible rates of load changes; monitoring of power unit components: start-up and shut-down; operational experience. Commencing date: To be arranged. Duration: 14 days. Qualifications: Master's degree, graduate engineer. English. Deadline for application: 3 months before commencing date. Fees: To be arranged.
Integrated development programming for the refining, petrochemical and chemical industries


Organizer: Joint Systems Research Department (JSRD)
Academy of Mining and Metallurgy
Industrial Chemistry Research Institute
Al. Mickiewicza 30
Krakow, Poland

Introduction to composite materials


Organizer: Institute of Mechanics and Design
Narbutta 85
02-524 Warsaw, Poland

Landing gears of aircraft

Short description: Landing gears of aircraft: design of structures, loads, tests, analysis. Commencing date: To be arranged. Duration: To be arranged. Qualifications: Engineers. English. Deadline for application: —. Fees: To be arranged.

Organizer: Aviation Institute
Al. Krakowska 110/114
02-256 Warsaw, Poland

Mathematical modelling in computer-aided design


Organizer: Institute of Mechanics and Design
Narbutta 85
02-524 Warsaw, Poland

Microbiological background of biotechnology

Short description: Strain selection, adaptation, improvement and maintenance. Commencing date: April/May. Duration: 1 week. Qualifications: English. Deadline for application: 6 months before commencing date. Fees: To be arranged.

Organizer: IBPRS
ul. Rakowiecka 36
02 532 Warsaw, Poland
Paint coating

Short description: Pretreatment of surface, selection of coating materials; methods of coating paint application; methods of curing (hardening) paint coatings; testing of film-forming materials; testing of paint coatings. Commencing date: To be arranged. Duration: 2-3 weeks. Qualifications: Secondary technical education, with 1 year of experience in the surface treatment of metals. English. Deadline for application: —. Fees: To be arranged.

Organizer: Institute of Precision Mechanics
ul. Duchnicka 3
00-967 Warsaw, Poland

Radiation protection

Short description: Basic data, regulations; practical exercises and visits to isotope laboratories. Commencing date: April. Duration: 2 weeks. Qualifications: Engineers. English. Deadline for application: 6 months before commencing date. Fees: To be arranged.

Organizer: Institute of Atomic Energy
Radiation Protection Department
05-400 Swierk-Otwock, Poland

Solid-state fermentation

Short description: Biological, technological, engineering and economical problems. Commencing date: September/October. Duration: 1 week. Qualifications: English. Deadline for application: —. Fees: To be arranged.

Organizer: IBPRS
ul. Rakowiecka 36
02-532 Warsaw, Poland

Transfer of technology

Short description: Short courses on: advanced technology; training of trainers; advanced materials; advanced VLSI processing; advanced VLSI design; device technology; information-storage technology; circuit design and signal processing; signal processing and communication; microwave and radar technology; computer-integrated manufacturing; control engineering. Commencing date: To be arranged. Duration: 3-5 days. Qualifications: Technical specialists and decision makers from upper and middle management. English. Deadline for application: 1 week before commencing date. Fees: To be arranged.

Organizer: CEI-Europe/Elsevier
P.O. Box 910
61225 Finspong, Sweden

International trade in services

Short description: Challenges and opportunities in the services trade for developing countries. Commencing date: March. Duration: 1 week. Qualifications: Professionals holding international trade responsibilities in the public or private sector. English. Deadline for application: February. Fees: SwF 1,500 (fellowships available).

Organizer: Centre for Applied Studies in International Negotiations
11a, avenue de la Paix
1202 Geneva, Switzerland
Management of Interdependence

Short description: The evolution of the world economy is raising questions about the pattern of trade and therefore of competition, investment and development strategies. Search for innovative policies and strategies for developing countries. Commencing date: October. Duration: 10 days. Qualifications: Professionals and executives holding international responsibilities. English. Deadline for application: July. Fees: SwF 2,900 (fellowships available).

Organizer: Centre for Applied Studies in International Negotiations
11a, avenue de la Paix
1202 Geneva, Switzerland

Beneficiation of non-metallic minerals

Short description: Development and training of mining engineers in the area of mineral processing. Commencing date: August. Duration: 5 days. Qualifications: Turkish. Deadline for application: July. Fees: LT 2,000,000.

Organizer: Istanbul Technical University
Faculty of Mining
Ayazağa
80626 Istanbul, Turkey

Industrial pollution


Organizer: Istanbul Technical University
Faculty of Civil Engineering
Environmental Engineering Division
Maslak
Istanbul, Turkey

Ultrasonography


Organizer: Istanbul Technical University
Nuclear Energy Institute
Ayazağa Tempus, Maslak
Istanbul, Turkey

Waste management in agro-industries

Short description: Various aspects of waste management problems arising from agro-industries will be discussed in a specialized symposium sponsored by IAWPRC and organized by the Turkish National Committee on Water Pollution Research and Control. Commencing date: September. Duration: 3 days. Qualifications: English. Deadline for application: July. Fees: $US 320.

Organizer: Istanbul Technical University
Department of Environmental Engineering
Ayazağa
80626 Istanbul, Turkey

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Contact address:
KONGRES IST
193, Cumhuriyet Caddesi, D. 6
Elmadag
80230 Istanbul, Turkey

Accountancy

Organizer: Short Course Support Unit
Sheffield City Polytechnic
43 Broomgrove Road
Sheffield S10 2NA, United Kingdom

Adaptive systems

Short description: Recent advances in adaptive techniques, practical and real-time application of these methods, particularly in underwater systems, noise cancellation and electroacoustics. Commencing date: April. Duration: 3 days. Qualifications: Some experience of signal processing. English. Deadline for application: March. Fees: £695.
Organizer: ISVR
University of Southampton
Southampton SO9 5NH, United Kingdom

Adhesives

Short description: Short courses on: adhesives technology; structural adhesives; hot melt adhesives. Commencing date: To be arranged. Duration: 1-4 days. Qualifications: Degree in engineering or related discipline. English. Deadline for application: To be arranged. Fees: Approximately £700 per week.
Organizer: Continuing Education Centre
Brunel University
Uxbridge, Middlesex UB8 3PH, United Kingdom

Advanced systems in manufacturing

Short description: Short courses on: advanced measurement and inspection systems in manufacturing; non-destructive testing; surface science; fatigue and fracture. Commencing date: To be arranged. Duration: 4-6 days. Qualifications: Degree in an engineering discipline. English. Deadline for application: To be arranged. Fees: Approximately £700 per week.
Organizer: Continuing Education Centre
Brunel University
Uxbridge, Middlesex UB8 3PH, United Kingdom

Analysis of environmental materials, including water

Organizer: Short Course Support Unit
Sheffield City Polytechnic
43 Broomgrove Road
Sheffield S10 2NA, United Kingdom

Applied digital signal processing

**Short description:** Fundamentals of digital data analysis of deterministic and random signals; advanced topics in digital signal processing; applications of the theory. **Commencing date:** July. **Duration:** 5 days. **Qualifications:** Basic understanding of engineering mathematics. English. **Deadline for application:** 3 weeks before commencing date. **Fees:** Approximately £850.

Organizer: ISVR
University of Southampton
Southampton SO9 5NH, United Kingdom

Applied pneumatics

**Short description:** Comprehensive introduction to applied pneumatics, using a simulator panel to give experience of practical circuits. **Commencing date:** Throughout the year. **Duration:** 6 days. **Qualifications:** English. **Deadline for application:** —. **Fees:** To be arranged.

Organizer: METCOM Training
Savoy Tower
77 Renfrew Street
Glasgow G2 3BZ, Scotland, United Kingdom

Basic signalling technology

**Short description:** Lecture-based course with practical sessions for signal engineers with limited experience. **Commencing date:** March. **Duration:** 2 weeks. **Qualifications:** English. **Deadline for application:** February. **Fees:** £2,000.

Organizer: Training Manager
Transmark
169 Westbourne Terrace
London W2 6JY, United Kingdom

Venue: Doncaster, United Kingdom

Building maintenance

**Short description:** Short courses on: introduction to building management; inspection and maintenance of automatic fire sprinklers; trouble-shooting for air-conditioning systems; inspection and maintenance of air-conditioning systems; trouble-shooting of refrigeration systems; inspection and maintenance of reciprocating refrigeration machines. **Commencing date:** Throughout the year. **Duration:** 2-5 days. **Qualifications:** Professional qualifications. English. **Deadline for application:** 1 month before commencing date. **Fees:** £300 630

Organizer: Haden Maintenance Training Centre
23 Gladstone Road
Croydon, Surrey CR0 2BQ, United Kingdom

Computer applications

**Short description:** Short courses on: Lotus software; introduction to UNIX, the C programming language; programming in ADA; desktop publishing. **Commencing date:** To
be arranged. **Duration:** 1-5 days. **Qualifications:** Experience in programming as appropriate. English. **Deadline for application:** —. **Fees:** To be arranged.

**Organizer:** Thames Valley College  
Business Information Systems Division  
Wellington Street  
Slough SL1 1YG, United Kingdom

### Computer operating systems

**Short description:** Advanced disc operating techniques using DOS 4 from menu creation to data security with utilities to protect files and read hidden information. **Commencing date:** June, September, November. **Duration:** 2 weeks. **Qualifications:** Computer literacy. English. **Deadline for application:** 1 month before commencing date. **Fees:** £650.

**Organizer:** Training Manager  
East Kilbride and District Engineering G.T.A. Ltd.  
3 Law Place  
Nerston Industrial Estate  
East Kilbride, United Kingdom

### Computer science

**Short description:** Short courses on: information systems; programming design; software engineering; database systems; high-performance computer architecture; software design techniques; use of interactive computer systems; expert systems. **Commencing date:** April-September. **Duration:** 4 days. **Qualifications:** Basic knowledge of computer systems. English. **Deadline for application:** 2 months before commencing date. **Fees:** £700-800.

**Organizer:** Department of Computer Science  
Brunel University  
Uxbridge, Middlesex UB8 3PH, United Kingdom

### Construction

**Short description:** Sewerage/drainage design, computerized system. **Commencing date:** Throughout the year. **Duration:** 1-3 days. **Qualifications:** Professional qualifications. **Language:** English. **Deadline for application:** To be arranged. **Fees:** £150-200 per day.

**Organizer:** Short Course Support Unit  
Sheffield City Polytechnic  
43 Broomgrove Road  
Sheffield S10 2NA, United Kingdom

### Corrosion monitoring

**Short description:** Short courses on: corrosion control; corrosion monitoring and inspection; corrosion in oil and gas industries. **Commencing date:** To be arranged. **Duration:** 4 days. **Qualifications:** English. **Deadline for application:** To be arranged. **Fees:** To be arranged.

**Organizer:** Corrosion Monitoring Consultancy (CMC)  
5, Old School Gardens  
School Lane, Eaton Socon  
St Neots, Cambridgeshire PE19 2JL, United Kingdom
Cotton circular knitted fabrics with low shrinkage

**Short description:** Production of cotton circular knitted fabrics having guaranteed performance specifications, especially with regard to dimensions, weight and shrinkage. **Commencing date:** July. **Duration:** 5 days. **Qualifications:** English. **Deadline for application:** March. **Fees:** £3,000 (residential).

**Organizer:** Cotton Technology International  
Suite 200, Scotscroft Building  
858 Wilmslow Road  
Didsbury, Manchester M20 8RX, United Kingdom

Defects in weldments

**Short description:** Short courses on: failure analysis of welded structures; critical assessment of defects in weldments. **Commencing date:** August. **Duration:** 1 week. **Qualifications:** English. **Deadline for application:** June. **Fees:** £700.

**Organizer:** Training Services, TWI  
Abington, Cambridge CB1 6AL, United Kingdom

**Venue:** Jakarta, Indonesia

Economics and operations of bunkering

**Short description:** International supply system for bunker oils (marine fuels for ship propulsion). **Commencing date:** May, October. **Duration:** 5 days. **Qualifications:** Management of shipowners and operators, oil companies and bunker-related organizations. **English. Deadline for application:** 2 weeks before commencing date. **Fees:** $US 3,000.

**Organizer:** Neil Cockett  
Yewtree House  
Barfreston  
Dover, Kent CT15 7JH, United Kingdom

**Venue:**  
May: Singapore  
October: College of Petroleum Studies, Oxford, United Kingdom

Electronics

**Short description:** Introduction to solid-state devices, their uses in different types of electronic circuitry; fault-finding and repair. **Commencing date:** Throughout the year. **Duration:** 3 days. **Qualifications:** English. **Deadline for application:** —. **Fees:** To be arranged.

**Organizer:** METCOM Training  
Savoy Tower  
77 Renfrew Street  
Glasgow G2 3BZ, Scotland, United Kingdom

Electronic engineering

**Short description:** Short courses on: parallel computer architecture; CAD for VLSI; discrete signal processing; VLSI design techniques; systems specification; advanced software principles; software engineering; expert systems; digital test and testability; optical fibre sensors and systems; condition monitoring and diagnostics; digital interfacing for sensors and instrumentation. **Commencing date:** To be arranged. **Duration:** 4-12 days. **Qualifications:** Degree in electronic engineering. **English. Deadline for application:** To be arranged. **Fees:** Approximately £700 per week.
Financial management

Short description: Short courses on: business contracts for managers; security investment analysis; financial accounting; corporate finance. Commencing date: To be arranged. Duration: 5 days. Qualifications: Graduates. English. Deadline for application: To be arranged. Fees: Approximately £700 per week.

Organizer: Continuing Education Centre
Brunel University
Uxbridge, Middlesex UB8 3PH, United Kingdom

Industrial hydraulics

Short description: Comprehensive introduction to industrial hydraulics using a simulator panel to give experience of practical circuits. Commencing date: Throughout the year. Duration: 5 days. Qualifications: English. Deadline for application: To be arranged.

Organizer: METCOM Training
Savoy Tower
77 Renfrew Street
Glasgow G2 3BZ, Scotland, United Kingdom

Industrial instrumentation

Short description: Short courses on: introduction to industrial instrumentation; measurement and control appreciation; instrumentation and measurement; process control; analogue electronics; digital electronics and logic; microprocessor technology and applications; distributed control systems appreciation. Commencing date: Throughout the year. Duration: 5-10 days. Qualifications: Relevant engineering background. English. Deadline for application: To be arranged. Fees: Approximately £396-792.

Organizer: Roxby Engineering International Ltd.
Lagonda Road
Billingham, Cleveland TS23 4JA, United Kingdom

Information technology


Organizer: Short Course Support Unit
Sheffield City Polytechnic
43 Broomgrove Road
Sheffield S10 2NA, United Kingdom

Inspection

Instructional techniques

Short description: Short courses on: instructional techniques for operator instructors; instructional techniques for skills instructions; instructional presentation skills; design of basic craft training programmes; managing the training function. Commencing date: To be arranged. Duration: 5 days. Qualifications: English. Deadline for application: —. Fees: Approximately £822-922 (including accommodation).

Organizer: Weeton Court Management and Training Centre
Allerton Park
Leeds LS7 4ND, United Kingdom

Intermodal transportation

Short description: Lecture/discussion based course with field visits for middle and senior managers in intermodal related departments. Commencing date: June. Duration: 2 weeks. Qualifications: English. Deadline for application: April. Fees: £2,800 (all inclusive).

Organizer: Training Manager
Transmark
169 Westbourne Terrace
London W2 6JY, United Kingdom

Venue: Ipswich, United Kingdom

Leather familiarization

Short description: Broad overview of leather and its manufacture with emphasis on the recognition of quality for suppliers (of chemicals and machinery) or users (shoemakers, upholstery and clothing manufacturers, fashion buyers) of leather. Commencing date: To be arranged. Duration: 2 weeks. Qualifications: English. Deadline for application: 2 months before commencing date. Fees: £280 per week.

Organizer: The British School of Leather Technology
The Leathersellers Centre
Nene College
Moulton Park
Northampton NN2 7AL, United Kingdom

Leather technology update

Short description: Update in new finishing methods, soft leather, advances in the beamhouse, alternatives to chrome. Commencing date: To be arranged. Duration: 1 week. Qualifications: English. Deadline for application: 2 months before commencing date. Fees: £280.

Organizer: The British School of Leather Technology
The Leathersellers Centre
Nene College
Moulton Park
Northampton NN2 7AL, United Kingdom
Maintenance

Short description: Short courses on: computers in maintenance; cost-effective maintenance; condition-based maintenance; vibration monitoring. Commencing date: To be arranged. Duration: 2 days-1 week. Qualifications: English. Deadline for application: 1 week before commencing date. Fees: To be arranged.

Organizer: Wolfson Maintenance
Enterprise House
Manchester Science Park
Lloyd Street North
Manchester M15 4EN, United Kingdom

Management

Short description: Short courses on subjects related to: leadership; environmental management; organization; human resources; research and innovation. Throughout the year. Duration: 1 day-2 weeks. Qualifications: English. Deadline for application: To be arranged. Fees: To be arranged.

Organizer: Brunel Management Programme
Brunel University
Uxbridge, Middlesex UB8 3PA, United Kingdom

Management


Organizer: Short Course Support Unit
Sheffield City Polytechnic
43 Broomgrove Road
Sheffield S10 2NA, United Kingdom

Management of a market-oriented economy in the energy sector

Short description: Energy sector in the United Kingdom; management in a changing climate; political, economic, legal, social and global factors when allied to supply and demand; safety; the environment; research; investment planning. Commencing date: To be arranged. Duration: 2-5 days. Qualifications: Chairmen, managing directors and chief executives of companies and utilities in the energy sector, senior government officials. English. Deadline for application: . Fees: To be arranged.

Organizer: Bf Training Services
16-18 Chequer Street
St. Albans, Hertfordshire AL1 3YD, United Kingdom

Management problems

Short description: Effective maintenance management; production control; quality in manufacturing; quality auditing; total quality management; the application of just-in-time (JIT) in manufacturing; training design and evaluation. Throughout the year. Duration: 1-5 days. Qualifications: English. Deadline for application: 2 weeks before commencing date. Fees: To be arranged.

Organizer: PERA International
Nottingham Road
Melton Mowbray, Leicestershire LE13 0PB, United Kingdom
Metals welding

Short description: Short courses on: welding metallurgy; metals welding processes; metals welding production. Commencing date: To be arranged. Duration: 4 days. Qualifications: Degree in engineering or a related discipline. English. Deadline for application: To be arranged. Fees: Approximately £700 per week.

Organizer: Continuing Education Centre
Brunel University
Uxbridge, Middlesex UB8 3PH, United Kingdom

Middle management

Short description: Basic managerial training for specialists who are into their first managerial appointment. Commencing date: To be arranged. Duration: 2 weeks. Qualifications: Graduate level or managerial/supervisory experience. English. Deadline for application: To be arranged. Fees: Approximately £2,600 (fully residential).

Organizer: BEI Training Services
16-18 Chequer Street
St. Albans, Hertfordshire AL1 3YD, United Kingdom

Middle management

Short description: Raise commercial awareness; give international economic background; understand financial accounting procedures. Commencing date: To be arranged. Duration: 10 days. Qualifications: English. Deadline for application: —. Fees: £500.

Organizer: Buckinghamshire College of H.E. Newland Park
Gorelands Lane
Chalfont
St. Giles, Buckinghamshire HP8 4AD, United Kingdom

Production control

Short description: Short courses on: creative and practical problem solving; leadership and team management; MTM practitioners; organization and methods; production planning and control; project management; supervisors’ course; sewing machine instructors; training instructors; safety officers’ course; total quality management. Commencing date: Throughout the year. Duration: 3-10 days. Qualifications: English. Deadline for application: —. Fees: To be arranged.

Organizer: Fielden House Ltd.
Mersey Road
West Didsbury
Manchester M20 RQA, United Kingdom

National (dangerous substances) driver training scheme

Short description: A training course for people moving or handling dangerous substances, basically in transport or distribution. Commencing date: Throughout the year. Duration: Hazfreight 3 days; hazpack 2 days. Qualifications: English. Deadline for application: To be arranged. Fees: £149.50 for 3-day course; £100 for 2-day course.

Organizer: Teesside Transport Training Association
Cargo Fleet Lane
Middlesbrough, Cleveland, United Kingdom
Short description: Short courses on: active control of sound and vibration; community noise and vibration; clinical audiology; engine noise and vibration control; advanced course on noise and vibration. Commencing date: March/April, September. Duration: 3-5 days. Qualifications: English. Deadline for application: 4 weeks before commencing date. Fees: £600-900.

Organizer: ISVR
University of Southampton
Southampton, Hampshire SO9 5NH, United Kingdom

Practical metallurgy

Short description: Short courses on: casting defects; casting design; cupola control; electric melting; foundry appreciation; practical ferrous metallurgy; practical non-ferrous metallurgy. Commencing date: Throughout the year. Duration: 3-10 days. Qualifications: English. Deadline for application: —. Fees: —.

Organizer: METCOM Training
Savoy Tower
77 Renfrew Street
Glasgow G2 3BZ, Scotland, United Kingdom

Predictive maintenance


Organizer: Training Manager
ICI Chemicals and Polymers Ltd.
Process Plant Services
P.O. Box 1
Billingham, Cleveland TS23 1LB, United Kingdom

Presentation skills for engineers

Short description: Skills for oral presentations by technologists to non-specialist management personnel. Commencing date: To be arranged. Duration: 3 days. Qualifications: Degree in engineering. English. Deadline for application: To be arranged. Fees: Approximately £700 per week.

Organizer: Continuing Education Centre
Brunel University
Uxbridge, Middlesex UB8 3PH, United Kingdom

Programme for Industry

Short description: Short courses on: aero- and hydro-acoustics; critical currents; neutral networks; molecular sensor technology; catalytic reactors; earthquake engineering; remote sensing; river engineering; low-noise RF engineering; chemical engineering for the food industry; electrical drives; prestressed concrete structures; turbomachinery aerodynamics; molecular modelling; energy management; financial econometrics; Competencies; manufacturing strategies; engineering design; earth retaining structures; advanced geotechnical analysis; ceramic and metallic composites; mathematics for communications; maximum entropy techniques; nanometre-scale devices; nuclear magnetic resonance in modern chemistry. Commencing date: March-September. Duration: 2-6 days. Qualifications: English. Deadline for application: —. Fees: To be arranged.
Quality system assessment

Short description: Knowledge and skills involved in assessing quality systems. Commencing date: January, April, July, September. Duration: 5 days. Qualifications: Professional qualifications. English. Deadline for application: 6 weeks before commencing date. Fees: To be arranged.

Organizer: Short Course Support Unit
Sheffield City Polytechnic
43 Broomgrove Road
Sheffield S10 2NA, United Kingdom

Refinery corrosion and inspection


Organizer: Training Services, TWI
Abington
Cambridge CB1 6AL, United Kingdom

Venue: Kuala Lumpur, Malaysia

Redesigning the manufacturing organization

Short description: Method for the analysis of working methods and procedures and its application to company structure and practices, including human-factor issues. Commencing date: To be arranged. Duration: 3-10 days. Qualifications: Engineers or managers. English. Deadline for application: —. Fees: £500-700.

Organizer: AMTRI
Hulley Road
Macclesfield, Cheshire SK10 2NE, United Kingdom

Senior management course

Short description: A senior general management programme to be run jointly with Strathclyde Graduate Business School. Commencing date: Autumn. Duration: 2 weeks. Qualifications: For senior executives or those about to be promoted to executive/director level. English. Deadline for application: To be arranged. Fees: Approximately £4,000 (fully residential).

Organizer: BDI Training Services
16-18 Chequer Street
St. Albans, Hertfordshire AL1 3YD, United Kingdom

Specialist engineering

Short description: Engineering in boilers, vessels and heat exchangers and various techniques for preventive engineering. Commencing date: October. Duration: 2 weeks. Qualifications: Graduate engineers or experienced engineering managers. English. Deadline for application: 3 weeks before commencing date. Fees: To be arranged.
Organizer: Training Manager  
ICI Chemicals and Polymers Ltd.  
Process Plant Services  
P.O. Box 1  
Billingham, Cleveland TS23 1LB, United Kingdom

**Supervision**

*Short description*: Short courses on: basic supervisory skills; instructional techniques; quality assurance. *Commencing date*: Throughout the year. *Duration*: 3-10 days.  
*Qualifications*: English. *Deadline for application*: —. *Fees*: —.

Organizer: METCOM Training  
Savoy Tower  
77 Renfrew Street  
Glasgow G2 3BZ, Scotland, United Kingdom

**Supervisory management studies**

*Short description*: Skills and techniques needed to implement change on the shopfloor, in the office and in all departments of a company. *Commencing date*: To be arranged.  
*Duration*: 4 modules of 5 days each. *Qualifications*: English. *Deadline for application*: —. *Fees*: Approximately £2,400 (including accommodation).

Organizer: Webton Court Management and Training Centre  
Allerton Park  
Leeds LS7 4ND, United Kingdom

**Tailor-made engineering courses**

*Short description*: Courses in engineering subjects tailor-made to the students’ specification and needs. Suitable for groups from a single organization. *Commencing date*: To be arranged.  
*Fees*: To be arranged.

Organizer: British Centre for Engineering and Scientific Training  
Brooklands Close  
Windmill Road  
Sunbury-on-Thames, Middlesex TW16 7DX, United Kingdom

**Techniques of instruction**


Organizer: Providence Group Services  
Grainger House, Cradley Road, Five Ways  
Cradley Heath  
Warley, West Midlands B64 6AG, United Kingdom

**Timber grading**

Organizer: Head, Overseas Operations
Timber Research and Development Association
Hughenden Valley
High Wycombe, Buckinghamshire HP14 4ND, United Kingdom

Total quality assurance techniques and systems

Short description: Quality control in manufacturing, with emphasis on statistical process control. Commencing date: To be arranged. Duration: 5 days. Qualifications: Degree in engineering. English. Deadline for application: To be arranged. Fees: Approximately £700 per week.

Organizer: Continuing Education Centre
Brunel University
Uxbridge, Middlesex UB8 3PH, United Kingdom

Total quality management


Organizer: Short Course Support Unit
Sheffield City Polytechnic
43 Broomgrove Road
Sheffield S10 2NA, United Kingdom

Training and development

Short description: Core competences required to meet the training needs of any organization. Commencing date: To be arranged. Duration: 3 modules, total 20 days. Qualifications: English. Deadline for application: —. Fees: Approximately £2,400 (including accommodation).

Organizer: Webton Court Management and Training Centre
Allerton Park
Leeds LS7 4ND, United Kingdom

Training and instruction

Short description: Instructional and presentation skills, practical application. Commencing date: Throughout the year. Duration: 2 weeks. Qualifications: English. Deadline for application: 4 weeks before commencing date. Fees: £350 per week.

Organizer: Teesside Transport Training Association
Cargo Fleet Lane
Middlesbrough, Cleveland, United Kingdom

Training management

Short description: Advanced programme dealing with the practice and management of training at a senior level. Commencing date: To be arranged. Duration: 4 modules of 5 days each. Qualifications: English. Deadline for application: —. Fees: Approximately £2,400 (including accommodation).

Organizer: Webton Court Management and Training Centre
Allerton Park
Leeds LS7 4ND, United Kingdom
Training of trainer.

Short description: Short courses on: foundation course for trainers; identification and analysis of training needs; training design; training evaluation; participative methods; advanced participative methods; the workplace trainer; organizational behaviour and behavioural sciences; internal consultancy; managing the training function; making flexible training work; training the occasional trainer; influencing skills; action learning; training for profit; knowledge and skills for sales trainers; training the information technology trainer; training administration; effective presentation. Commencing date. To be arranged. Duration: 2-5 days. Qualifications: English. Deadline for application: 1 month before commencing date. Fees: To be arranged.

Organizer: British Association for Commercial and Industrial Education (BACIE)
16 Park Crescent
London WIN 4AP, United Kingdom

Urban and regional studies


Organizer: Short Course Support Unit
Sheffield City Polytechnic
43 Broomgrove Road
Sheffield S10 2NA, United Kingdom

Warehouse management

Short description: Short courses on: warehouse layout and methods; warehouse management; physical distribution; parts stores system design. Commencing date: February-October. Duration: 4 1/2 days. Qualifications: English. Deadline for application. Fees: To be arranged.

Organizer: NMHC Ltd.
Cranfield Institute of Technology
Cranfield, Bedford MK43 OAL, United Kingdom

Welding Inspection


Organizer: Training Services, TWI
Abington
Cambridge CB1 6AL, United Kingdom

Venue: Kuala Lumpur, Malaysia

Welding of plastics

Short description: Technologies of plastics fusion joining. Commencing date. To be arranged. Duration: 3 days. Qualifications: Degree in an engineering or related discipline. English. Deadline for application: To be arranged. Fees: Approximately £700 per week.
Weld quality

Short description: Design, manufacture, non-destructive testing and quality assurance of welded constructions. Commencing date: January, May, October. Duration: 2 weeks (with 2 weeks practical option). Qualifications: Relevant industrial experience. English. Deadline for application: —. Fees: £700 for each 2 weeks' programme.

Organizer: W. McEwan OBE
Paisley College Quality Centre
Paisley College, High Street
Paisley PA1 2BE, Renfrewshire, Scotland, United Kingdom

Analysis and negotiation of BOO and BOT projects


Organizer: Center for Financial Engineering in Development
2301 E St. NW, A206
Washington, D.C. 20037, United States of America

Management skills

Short description: Short courses on: training of trainers and the management of training; project management and evaluation; management—communication for development; managing development with microcomputers. Commencing date: May-December. Duration: 2 weeks. Qualifications: English. Deadline for application: 1 month before commencing date. Fees: To be arranged.

Organizer: Training and Development Institute
P.O. Box 23975
Washington, D.C. 20026, United States of America

Plastics technology

Short description: Short courses on: plastics injection molding, extrusion, recycling, polyethylene resins, plastic technology, polymer testing. Commencing date: To be arranged. Duration: 2-3 days. Qualifications: English. Deadline for application: —. Fees: To be arranged.

Organizer: Plastics Institute of America
Suite 100
277 Stanfield Road
Farfield NJ 07004 1932, United States of America

Privatización — organización, estructura y ejecución

Restructuring industrial enterprises


Organizer: Center for Financial Engineering in Development
2301 E St. NW, A206
Washington, D.C. 20037, United States of America
B. DEVELOPING COUNTRIES/PAYS EN DÉVELOPPEMENT/PAÍSES EN DESARROLLO

Aceros Inoxidables


Organizador: Instituto Nacional de Tecnología Industrial (INTI)
Sector Electroquímica Aplicada
C.C. 157
1650 San Martín
Pcia. de Buenos Aires, Argentina

Dirección de la entidad a contactar:
INTI
Relaciones y Proyectos Internacionales
Leandro N. Alem 1067, 5o. piso
1001 Capital Federal, Argentina

Corrosión del acero en el hormigón armado


Organizador: Instituto Nacional de Tecnología Industrial (INTI)
Sector Electroquímica Aplicada
C.C. 157
1650 San Martín
Pcia. de Buenos Aires, Argentina

Dirección de la entidad a contactar:
INTI
Relaciones y Proyectos Internacionales
Leandro N. Alem 1067, 5o. piso
1001 Capital Federal, Argentina

Detección y control de la corrosión en la industria

**Elaboración de jamón cocido**

**Breve descripción:** Curso teórico-práctico; se desarrollará en la planta piloto de CTTECA.

**Fecha de iniciación:** Para ser acordado. **Duración:** 1 semana. **Calificaciones:** Español.

**Fecha límite de inscripción:** —. **Derechos de inscripción:** Para ser acordado.

**Organizador:** CTTECA/INTI  
C.C. 157  
1650 San Martín  
Pcia. de Buenos Aires, Argentina

**Dirección de la entidad a contactar:**  
INTI  
Relaciones y Proyectos Internacionales  
Leandro N. Alem 1067, 5o. piso  
1001 Capital Federal, Argentina

**Materiales plásticos para uso biomédico**

**Breve descripción:** Caracterización físico-química; biocompatibilidad; propiedades y utilización; control de calidad; legislación. **Fecha de iniciación:** Para ser acordado. **Duración:** 1 semana. **Calificaciones:** Español. **Fecha límite de inscripción:** —. **Derechos de inscripción:** Para ser acordado.

**Organizador:** CTITIP  
C.C. 157  
1650 San Martín  
Pcia. de Buenos Aires, Argentina

**Dirección de la entidad a contactar:**  
INTI  
Relaciones y Proyectos Internacionales  
Leandro N. Alem 1067, 5o. piso  
1001 Capital Federal, Argentina

**Autómatas programables (SPS) aplicados a los mandos eléctricos de maquinaria**

**Breve descripción:** Programación y aplicación de robots con algún nivel de inteligencia artificial. **Fecha de iniciación:** Octubre. **Duración:** 2 semanas. **Calificaciones:** Español. **Fecha límite de inscripción:** Julio. **Derechos de inscripción:** —.

**Organizador:** División Cooperación Técnica  
Calle 57 No. 8-69, Torre Central, Piso 5  
Bogotá, Colombia

**Lugar:**  
Centro Colombiano Alemán  
Barranquilla, Regional Atlántico, Colombia
Mandos y controles eléctricos de máquinas


Organizador: División Cooperación Técnica
Calle 57 No. 8-69, Torre Central, Piso 5
Bogotá, Colombia

Lugar: Centro Colombo Alemán
Barranquilla, Regional Atlántico, Colombia

Mantenimiento de sistemas hidráulicos


Organizador: División Cooperación Técnica
Calle 57 No. 8-69, Torre Central, Piso 5
Bogotá, Colombia

Lugar: Centro Colombo Alemán
Barranquilla, Regional Atlántico, Colombia

Mecanizado eficaz


Organizador: División Cooperación Técnica
Calle 57 No. 8-69, Torre Central, Piso 5
Bogotá, Colombia

Lugar: Centro de Desarrollo ASTIN de Cali
Regional del Valle
Calle 52, No. 2-bis-15
Salomía, Cali, Valle del Cauca, Colombia

Organización y administración del mantenimiento industrial I y II


Organizador: División Cooperación Técnica
Calle 57 No. 8-69, Torre Central, Piso 5
Bogotá, Colombia

Lugar: Centro Colombo Alemán
Barranquilla, Regional Atlántico, Colombia
Programación y control de microprocesadores


Organizador: División Cooperación Técnica
Calle 57 No. 8-69, Torre Central, Piso 5
Bogotá, Colombia

Lugar: Centro Colombo Alemán
Barranquilla, Regional Atlántico, Colombia

Tratamiento térmico


Organizador: División Cooperación Técnica
Calle 57 No. 8-69, Torre Central, Piso 5
Bogotá, Colombia

Lugar: Centro de Desarrollo ASTIN de Cali
Regional del Valle
Calle 52, No. 2-bis-15
Salomia, Cali, Valle del Cauca, Colombia

Enfoques y métodos para la capacitación a dirigentes

Breve descripción: El curso brinda información para profesores sobre aspectos de enf y métodos a utilizar durante la capacitación a dirigentes. Fecha de iniciación: Abril.
Derechos de inscripción: Para ser acordado.

Organizador: Escuela Superior de Cuadros del Ministerio de la Industria Básica
Carretera de Vento km 10 ½
Municipio Boyeros, Ciudad Habana, Cuba

Concrete technology

Short description: Concrete technology, cement and aggregates, their properties, specifications and testing; reinforcing steel, admixtures, concrete mix design, non-destructive testing, quality control, formwork and scaffolding, laboratory tests. Commencing date To be arranged. Duration. 2 weeks. Qualifications: Engineers/managers with 5-8 year of experience. English. Deadline for application. 2 months before commencing date.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

Venue: Indian Railways Institute of Civil Engineering
Pune 411 001, India
Construction and doubling of railway track

Short description: Project planning, management and quality assurance, modern surveying equipment, properties of soil, earth work and its quality control, earth moving equipment and material testing, construction contracts, quality control in concrete production, placing and curing, quality control in linking permanen' way. Commencing date: To be arranged. Duration: 2 weeks. Qualifications: Engineers/managers with 5-8 years of experience. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: RITES
New Delhi, India

Contact address:
Group General Manager (Training)
New Delhi House
27 Barakhamba Road
New Delhi 110 001, India

Venue: Indian Railways Institute of Civil Engineering
Pun: 411 001, India

Extension motivation programme


Organizer: Entrepreneurship Development Institute of India
Bhat, P.O. Chandkheda 382 424
Dist. Gandhinagar, Gujarat, India

Fertilizer use and promotion

Short description: Short courses on: marketing management development programme; logistics of fertilizer distribution; energy management and optimization in fertilizer industry; agricultural services and market development executive. Commencing date: March-October. Duration: 2-12 days. Qualifications: Middle- to higher-level engineers and managers. English. Deadline for application: 2 months before commencing date. Fees: To be arranged.

Organizer: The Fertilizer Association of India
10, Shaheed Jit Singh Marg
New Delhi 110 067, India

Improving performance of small- and medium-size enterprises


Organizer: Entrepreneurship Development Institute of India
Bhat, P.O. Chandkheda 382 424
Dist. Gandhinagar, Gujarat, India
Management

Short description: Short courses on: administrative management; stores management; value engineering; workstudy appreciation; behavioural science; material and purchase management; financial management. Commencing date: Throughout the year. Duration: 1-2 weeks. Qualifications: English. Deadline for application: —. Fees: Rs 1,200 per week.

Organizer: Director, Training and Sponsored Research Research and Development Organization Ministry of Defence Sena Bhawan, 'B' Wing DHQ PO New Delhi 110 011, India

Manpower planning

Short description: Short courses on: human resource development; computer application in manpower planning; manpower planning for different economic sectors; demography, statistics and data analysis; training of trainers; manpower forecasting; human resource management for government officers at different levels. Commencing date: To be arranged. Duration: 1-2 weeks. Qualifications: English. Deadline for application: 1 week before commencing date. Fees: To be arranged.

Organizer: Institute of Applied Manpower Research Indraprastha Estate, Mahatma Gandhi Marg New Delhi 110 002, India

Production management

Short description: Short courses on: production management; project management; team building; production planning and control; managerial effectiveness. Commencing date: January-July. Duration: 2 weeks. Qualifications: Degree/diploma with 2-3 years of experience in a responsible position. English. Deadline for application: 3 months before commencing date. Fees: $US 1,200.

Organizer: National Institute for Training in Industrial Engineering (NITIE) Vihar Lake Bombay 400 087, India

Refresher course for tool designers


Organizer: General Manager (Training) NITIE Training Centre P.O. Box 5857 No. 23/24, II Phase Peenya Industrial Area Bangalore 560 058, India

Refresher course for tool-room operators

Short description: Limits, fits, engineering tolerances, form and position tolerances, measuring equipment, cutting tools, SPM's spark erosion, wire erosion; practicals on
conventional machines, observation on special-purpose machines, jig boring, jig grinding, press tools, jigs and fixtures, moulds. **Commencing date:** June. **Duration:** 80 hours. **Qualifications:** Tool-room operators. English. **Deadline for application:** February. **Fees:** $US 500.

**Organizer:**
General Manager (Training)
NTTF Training Centre
P.O. Box 5857
No. 23/24, II Phase
Peenya Industrial Area
Bangalore 560 058, India

**Teachers' training in entrepreneurship**

**Short description:** Orientation in entrepreneurship development for teachers, to help them in initiating and implementing courses on entrepreneurship in educational institutions in order to encourage students to look at entrepreneurial activity as an effective alternative to employment. **Commencing date:** March. **Duration:** 2 weeks. **Qualifications:** English. **Deadline for application:** February. **Fees:** $US 1,000 (including accommodation and meals).

**Organizer:**
Entrepreneurship Development Institute of India
Bhar. Chandkheda 382 424
Dist. Gandhidham, Gujarat, India

**Tool-room Inspectors' course**

**Short description:** Limits, fits and tolerances, form and position tolerance, shaft, hole and position measuring instruments, taper/angle measuring, inspection procedure, gauges and their uses, case studies and video/film show; observation and study of tool-room measuring equipment. **Commencing date:** June. **Duration:** 40 hours. **Qualifications:** Tool-room inspectors. English. **Deadline for application:** February. **Fees:** $US 250.

**Organizer:**
General Manager (Training)
NTTF Training Centre
P.O. Box 5857
No. 23/24, II Phase
Peenya Industrial Area
Bangalore 560 058, India

**Maintenance cost control**

**Short description:** Cost control theory: the annual budget; control of expenses for maintenance. **Commencing date:** July. **Duration:** 2 weeks. **Qualifications:** Bachelor's degree in mechanical or electrical engineering. English. **Deadline for application:** To be arranged. **Fees:** $US 1,000.

**Organizer:**
The Arab Potash Co., Ltd.
P.O. Box 1470
Amman, Jordan

**Gestion**

**Brève description :** Cours de courte durée sur : marketing, comptabilité, finances, informatique, gestion. **Début du cours :** A arranger. **Durée :** 3-7 jours. **Qualifications :** Français. **Date limite d'inscription :** 10 jours avant le début du cours. **Droits d'inscription :** FF 1 500-3 500.
Organisateur : INSCAF
DRE Maison des produits
67 Ha — B.P. 946
Antananarivo, Madagascar

Industrial management:

Short description: Short courses on: industrial engineering, sales and marketing; personnel development; management; industrial relations; quality control circles; management accounting; total quality control; low-cost automation. Commencing date: Throughout the year. Duration: 2 days-2 weeks. Qualifications: Working experience in the subject relevant to the course. English. Deadline for application: 1 week before commencing date. Fees: To be arranged.

Organizer: National Productivity Centre
Ministry of Trade and Industry
Peti Surat 64
46904 Petaling Jaya, Malaysia

Gestion et mise en œuvre des programmes de privatisation


Organisateur : Ministère de la promotion économique (DIPIP)
B.P. 480
Niamey, Niger

Informatique de gestion


Organisateur : Ministère de la promotion économique (DIPIP)
B.P. 480
Niamey, Niger

Normalisation et contrôle de qualité des produits industriels


Organisateur : Ministère de la promotion économique (DIPIP)
B.P. 480
Niamey, Niger

Trainer’s development

Short description: Short courses on: needs analysis; systems approach to skills training; industrial safety workshop for trainers. Commencing date: To be arranged. Duration: 5 days-2 weeks. Qualifications: University degree or equivalent English. Deadline for application: January-February. Fees: $US 1,100-1,500 (including boarding).
Banca y comercio internacional


Organizador: Asociación Latinoamericana de instituciones financieras de desarrollo (ALIDE)
Av. Paseo de la República 3211
Lima 100, Perú

Gestión financiera, empresarial y bancaria


Organizador: Asociación Latinoamericana de instituciones financieras de desarrollo (ALIDE)
Av. Paseo de la República 3211
Lima 100, Perú

Construction

Short description: Short courses on: construction methods and techniques; planning and control; concreting works; line and grade; masonry; earthworks—vertical construction; earthworks—horizontal construction; heavy equipment management; quality control; work-study methods in construction; value and cost engineering. Commencing date: To be arranged. Duration: 3-11 days. Qualifications: Bachelor's degree, preferably in engineering or architecture, with 2 years of experience in construction. English. Deadline: for application: 1 week before commencing date. Fees: $US 250-600.

Organizador: Construction Manpower Development Foundation (CMDF)
6th floor, Prudential Bank Building
2158 Pasong Tamo, Makati
Metro Manila, Philippines

Electromechanics

Short description: Short courses on: pneumatic and hydraulic; air conditioning for cars; industrial refrigeration and air conditioning; commercial refrigeration and air conditioning; domestic refrigeration and air conditioning; industrial sequence control; industrial electricity; electric machine rewinding; appliance servicing; electric wiring system design. Commencing date: January, April. Duration: 2 1/2 weeks. Qualifications: Professional qualifications. English. Deadline for application: To be arranged. Fees: P 1,400. 2,000.

Organizador: Office of Manpower Skills Development (OMSD)
National Manpower and Youth Council
Taguig, Metro Manila, Philippines
Export promotion

Short description: Short courses on: basics of exporting; organizing for export; financing exports; letters of credit; costing and pricing of products for export; negotiating with foreign buyers; market information; exhibitions and visual merchandising; participating in trade fairs; testing of fabrics and garments; fabric and garment inspection; testing of wooden furniture; testing of processed foods and vegetables; testing for colour fastness, fibre composition and harmful substances in garments; testing of frozen marine products; testing of fruits and vegetables preserved in sugar; canning of food products; packaging of processed foods. Commencing date: To be arranged. Duration: 1-5 days. Qualifications: English. Deadline for application: —. Fees: $US 200-1,300.

Organizer: Philippine Trade Training Center
International Trade Center Complex
Roxas Blvd., cor. Gil Puyat Ave.
1300 Pasay City, Philippines

Management and development of training


Organizer: Institute of Vocational Training and Development (IVTD)
National Manpower and Youth Council
Taguig, Metro Manila, Philippines

Cutting with laser CO₂


Organizer: Instituto de Soldadura e Qualidade
Rua Tomás de Figueiredo 16A
1500 Lisbon, Portugal

Generating and using steam

Short description: Selection of equipment; procedures for energy saving. Commencing date: May. Duration: 8 days (3 hours per day). Qualifications: Professional experience. Portuguese. Deadline for application: 2 weeks before commencing date. Fees: Esc 85,000.

Organizer: Instituto de Soldadura e Qualidade
Rua Tomás de Figueiredo 16A
1500 Lisbon, Portugal

Industrial automation and robotics

Short description: Different approaches to manufacturing in industry under the impact of robots and plant automation. Commencing date: April. Duration: 3 days. Qualifications: English. Deadline for application: 2 weeks before commencing date. Fees: Esc 100,000.

Organizer: Instituto de Soldadura e Qualidade
Rua Tomás de Figueiredo 16A
1500 Lisbon, Portugal
Industrial safety


Organizer: Instituto de Soldadura e Qualidade
Rua Tomás de Figueiredo 16A
1500 Lisbon, Portugal

Quality costs

Short description: Training in the quality field. Commencing date: May. Duration: 3 days. Qualifications: Professional experience. Portuguese, English. Deadline for application: 2 weeks before commencing date. Fees: Esc 100,000.

Organizer: Instituto de Soldadura e Qualidade
Rua Tomás de Figueiredo 16A
1500 Lisbon, Portugal

Welding with high-density energy beams (electrons and laser beam)

Short description: Latest technologies for welding, e.g. steels. Commencing date: June. Duration: 3 days. Qualifications: Professional experience. Portuguese. Deadline for application: 2 weeks before commencing date. Fees: Esc 85,000.

Organizer: Instituto de Soldadura e Qualidade
Rua Tomás de Figueiredo 16A
1500 Lisbon, Portugal

Internal audit control

Short description: The internal audit aspect; the auditing process. Commencing date: November. Duration: 10 days. Qualifications: Graduates. Arabic. Deadline for application: October. Fees: To be arranged.

Organizer: Saudi Basic Industries Corporation
P.O. Box 5101
Riyadh 11422, Saudi Arabia

Petrochemicals—management

Short description: Short courses on: risk management; quality management; statistical process control. Commencing date: February-October. Duration: 3-5 days. Qualifications: Graduates. English. Deadline for application: 1 month before commencing date. Fees: To be arranged.

Organizer: Saudi Basic Industries Corporation
P.O. Box 5101
Riyadh 11422, Saudi Arabia

Fertilizer industry

Short description: Short courses on: production planning and control; coal gasification; gas purification and ammonia synthesis; nitric acid production; ammonium sulphate production; production of ammonium nitrate fertilizers; technical safety; first aid; pollution control; chemical analysis in fertilizer industry; instrumentation technology; maintenance; management concepts. Commencing date: April-June. Duration:
1-3 days. Qualifications: Engineers or technicians working in fertilizer industry. English. Deadline for application: 3 months before commencing date. Fees: $US 45 per day (including board and lodging).

Organizer: TÜGSAŞ
Eğitim Genel Müdürlüğü
Konya Devlet Yolu No. 70
06330 Ankara, Turkey

Post-graduate training opportunities

Short description: Courses of different duration related to the following subjects: science education; statistics; international business finance; international finance; personnel management; architecture; public administration; corporate finance; marketing; physics; chemistry; banking; business administration; personal computers; mechanical engineering; information systems; industrial engineering; electrical engineering; metallurgical engineering; civil engineering; computer engineering; petroleum engineering; mining engineering. Commencing date: To be arranged. Duration: To be arranged. Qualifications: Turkish, English. Deadline for application: 3 months before commencing date. Fees: To be arranged.

Organizer: Middle East Technical University
Continuing Education Center
Ankara, Turkey

Productivity Improvement

Short description: Promotion of productivity concept; ways to increase productivity. Commencing date: Throughout the year. Duration: 3-5 days. Qualifications: Managers. Turkish. Deadline for application: —. Fees: To be arranged.

Organizer: National Productivity Centre of Turkey
Gelibolu Sk. 5
06690 Kavaklidere, Ankara, Turkey

Solid waste incineration


Organizer: Turkish National Committee on Solid Wastes
Boğaziçi University
80815 Bebek, Istanbul, Turkey

Solid waste management


Organizer: Turkish National Committee on Solid Wastes
Boğaziçi University
80815 Bebek, Istanbul, Turkey
Desarrollo gerencial


Organizador: Centro Nacional de Tecnología y Productividad Industrial
Sanndl 690 D, 2do. Entrepiso
Montevideo, Uruguay