

INTRODUCTION

Devotra provides an increasing range of equipment for education and training for the specialized areas as listed on following pages. The equipment can be used for projects ranging from primary education up to higher education, including vocational training. Devotra selects the proper manufacturer, product and quality for the client in order to make sure that the supplied equipment matches exactly the needs of the project. Equipment can be modified according to customer requirements and can be provided in the form of real life equipment, pilot plants, experimental laboratories, demo units, including e-learning, software, course ware, furniture, etcetera. Our range of equipment for education and training covers:

PRIMARY EDUCATION

- age 6 to 12 years
- elementary science, technology, language, literacy, mathematics, geography, ict
- interactive software and specially designed hardware and apparatus for above mentioned subjects

SECONDARY EDUCATION

- age 12 to 18 years
- science and technology experimental laboratories
- ict and e-learning based teaching and learning resources

HIGHER EDUCATION

- agriculture-, automotive-, (petro)chemical-, civil-, electrical-, mechanical engineering
- applied science
- ict and e-learning solutions for above

VOCATIONAL TRAINING

- automotive, building, construction, carpentry, electrical, electronics
- mechanical, oil and gas, plumbing, refrigeration, machining, pipefitting
- ict and e-learning solutions related to practical training equipment

GENERAL EQUIPMENT

- office-, classroom-, canteen- and workshop furniture
- it-, audio/visual- and office equipment
- sports-, art-, music equipment and instruments
- library systems and language laboratories

TECHNICAL SUPPLIES

- hand tools
- electrical and industrial parts
- consumables and spare parts
- raw materials



EXPERIMENTAL LABORATORIES

For primary and secondary education (years 6 - 18), Devotra can supply complete experimental laboratories covering the full range of science and technology subjects. These labs can be equipped with conventional teaching and learning recourses, such as laboratory equipment, demo units, sectioned models, etcetera. However most of the science and technology subjects are now also supported by ICT based learning programs, virtual laboratories, smart classrooms and e-learning. These are even available as a Mobile Science Cart that incorporates a series of digital presentation tools linked to an on-board computer. The inclusion of a digital camera and scientific image processing software allows the teacher to conduct experiments that are projected for whole-class viewing.



TECHNOLOGY

- ict
- electrical
- automotive
- construction
- mechanical
- telecommunication
- digital media design

SCIENCE

- biology
- chemistry
- physics
- laboratory equipment
- earth
- nature of science
- mobile demonstrator



ICT AND E-LEARNING

ICT is very essential in every area of industry and society. Therefore also in any educational subject. E-learning can be applied at different educational levels from primary education, technical vocational training and applied science up to university level. Practical training equipment and traditional curricula can be combined with e-content (such as virtual labs, online assessments, encyclopaedias and flash media). Full range of materials are available for mathematics, English language, technology, science, engineering, oil and gas training and much more.



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| <input type="checkbox"/> computer aided publishing | <input type="checkbox"/> hardware (smart classroom) |
| <input type="checkbox"/> digital photography | <input type="checkbox"/> computer applications |
| <input type="checkbox"/> data transmission | <input type="checkbox"/> isdn/lan/wan systems |
| <input type="checkbox"/> demo units | <input type="checkbox"/> multi media training systems |
| <input type="checkbox"/> virtual laboratories | <input type="checkbox"/> computer programming |
| <input type="checkbox"/> digital video production | <input type="checkbox"/> network administration |
| <input type="checkbox"/> network configuration | <input type="checkbox"/> software (e-content) |
| <input type="checkbox"/> experimental modules | <input type="checkbox"/> special furniture |
| <input type="checkbox"/> computer maintenance | <input type="checkbox"/> trouble shooting |
| <input type="checkbox"/> graphics and animation | <input type="checkbox"/> computer upgrading |





AGRICULTURE ENGINEERING

Agricultural engineers apply engineering, science and technology to agricultural production and processing. This is also used for management of natural resources.

- agricultural machinery, equipment and farm mechanisation
- environmental technology
- food processing and technology
- irrigation and drainage
- flood technology
- laboratories
- repair and maintenance
- sectioned models
- soil and water technology

CIVIL ENGINEERING

Civil engineering is a professional engineering discipline that deals with the design, construction and maintenance of the physical and naturally built environments, including works such as bridges, roads, dams and buildings.

- building and construction machinery
- carpentry and joinery
- environmental engineering
- geology
- geotechnical engineering
- hydrology
- material testing laboratories
- meteorology
- soil technology
- surveying
- water resource management

AUTOMOTIVE ENGINEERING

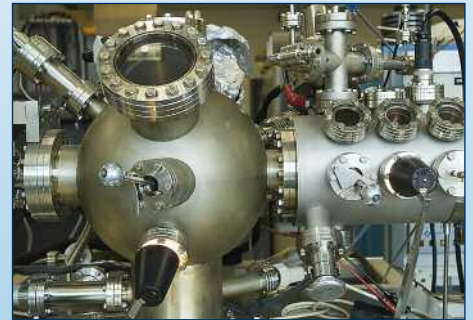
Modern automotive engineering incorporates elements of mechanical, electrical, electronic, software and safety engineering as applied to the design, manufacture, operation and maintenance of motorcycles, automobiles, busses, trucks and their respective engineering subsystems.

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|--|---|
| <input type="checkbox"/> aero dynamics | <input type="checkbox"/> injection systems |
| <input type="checkbox"/> engine diagnostics | <input type="checkbox"/> safety engineering |
| <input type="checkbox"/> auto electronics | <input type="checkbox"/> sectioned models |
| <input type="checkbox"/> climate control | <input type="checkbox"/> sensor |
| <input type="checkbox"/> demo units | <input type="checkbox"/> actuators |
| <input type="checkbox"/> diesel technology | <input type="checkbox"/> vehicle dynamics |
| <input type="checkbox"/> engine demo units | <input type="checkbox"/> workshop equipment |
| <input type="checkbox"/> gear and drive technology | <input type="checkbox"/> handtools |

CHEMICAL ENGINEERING

Chemical engineering is the branch of engineering that deals with the application of physical science (e.g. chemistry and physics) with mathematics, to the process of converting raw materials or chemicals into more useful or valuable forms. Chemical engineering is also concerned with pioneering valuable new materials and techniques.

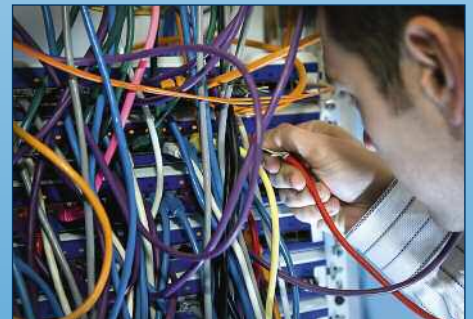
- biotechnology
- corrosion study
- distillation technology
- electro chemistry
- evaporation technology
- extraction technology
- heat exchange technology
- mass transfer technology
- membrane processes
- pilot plants
- demo units
- plastics technology
- reaction technology
- laboratories



ELECTRICAL ENGINEERING

Electrical engineering is the field of engineering that deals with the study and application of electricity, electronics and electromagnetism. Nowadays it covers a range of subtopics including signal processing, control systems, power and telecommunications.

- analogue communication
- audio/video systems
- components
- control technology
- demo units
- digital communication
- digital electronics
- electronic circuits
- experimental modules
- hand tools
- industrial electronics
- mechatronics
- micro electronics
- motor winding machines
- optical fibres
- plc training units
- power engineering
- servo mechanisms
- signal processing
- telecommunications
- test equipment/instruments
- transmission systems



MECHANICAL ENGINEERING

Mechanical engineering is an engineering discipline that involves the application of principles of physics for analysis, design, manufacturing, and maintenance of mechanical systems. It requires a solid understanding of core concepts including mechanics, kinematics, thermodynamics and energy.

- cad/cam
- drafting
- energy conversion
- fluid mechanics and dynamics
- forging and foundry
- heat transfer
- hvac
- hydraulics and pneumatics
- industrial manufacturing
- instrumentation
- machine tools and accessories
- mechanisms
- mechatronics
- metallurgy
- metrology
- cnc technology





OIL AND GAS TRAINING

Training for oil and gas is a specialized area that requires specialized training materials in the form of equipment, software and courseware. The equipment and courses have to comply with high international standards as set worldwide by the oil and gas industry.

- gas systems
- diesel engine technology
- electric motors
- electrical wiring
- emergency shut down systems
- fire systems
- hazardous goods
- health and safety
- high and low voltage systems
- instrumentation
- pilot plants
- pipefitting
- pressure and flow demo units
- pump systems
- transport
- valve systems
- vibration monitoring and analyses
- temperature demo units

SERVICES SECTOR

Health and care: relates to all integrated services that are available from health and social care providers. It includes a range of courses which can be taken at various academic and vocational levels.

Hospitality and tourism management: a full range of equipment and courseware up to MBA and MSc level that allow graduates to work in the hospitality industry, such as hotels, resorts, and restaurants.

Business administration: programs that include a variety of subjects, such as economics, organizational behavior, marketing and public relations, accounting, finance, strategy, operations management, international business, information technology, project management and language training.

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| <input type="checkbox"/> accounting programs | <input type="checkbox"/> food technology |
| <input type="checkbox"/> beauty and care | <input type="checkbox"/> health care |
| <input type="checkbox"/> catering | <input type="checkbox"/> elderly care |
| <input type="checkbox"/> curricula/e-content | <input type="checkbox"/> hotel |
| <input type="checkbox"/> demo units | <input type="checkbox"/> tourism |
| <input type="checkbox"/> public relations | <input type="checkbox"/> instrumentation |
| <input type="checkbox"/> entrepreneurship training | <input type="checkbox"/> language labs |
| <input type="checkbox"/> food laboratories | <input type="checkbox"/> medical equipment |
| <input type="checkbox"/> food processing | <input type="checkbox"/> professional kitchen equipment |

GENERAL EQUIPMENT

To complete all mentioned specialized training equipment, Devotra offers a wide range of supporting general equipment and supplies. These materials are required to make an individual school or a turn-key educational project complete and ready for use. The goods include office-, classroom-, canteen- and workshop furniture, sports-, art- and music equipment, IT and audio/visual equipment.

Alternatively the materials are supplied for specific field projects of the United Nations. This can vary from a project in the field of industrial development up to relief aid and peace keeping operations.

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| <input type="checkbox"/> tables | <input type="checkbox"/> beamers |
| <input type="checkbox"/> desks | <input type="checkbox"/> whiteboards |
| <input type="checkbox"/> chairs | <input type="checkbox"/> language laboratories |
| <input type="checkbox"/> cabinets | <input type="checkbox"/> photocopiers |
| <input type="checkbox"/> libraries | <input type="checkbox"/> drawing boards |
| <input type="checkbox"/> conference equipment | <input type="checkbox"/> overhead projectors |
| <input type="checkbox"/> work benches | <input type="checkbox"/> public address systems |
| <input type="checkbox"/> shelving | <input type="checkbox"/> gym equipment |
| <input type="checkbox"/> lecterns | <input type="checkbox"/> sports clothing |
| <input type="checkbox"/> storage systems | <input type="checkbox"/> sport games |
| <input type="checkbox"/> office equipment | <input type="checkbox"/> sport resources |
| <input type="checkbox"/> computers | <input type="checkbox"/> art materials |
| <input type="checkbox"/> printers | <input type="checkbox"/> art resources |



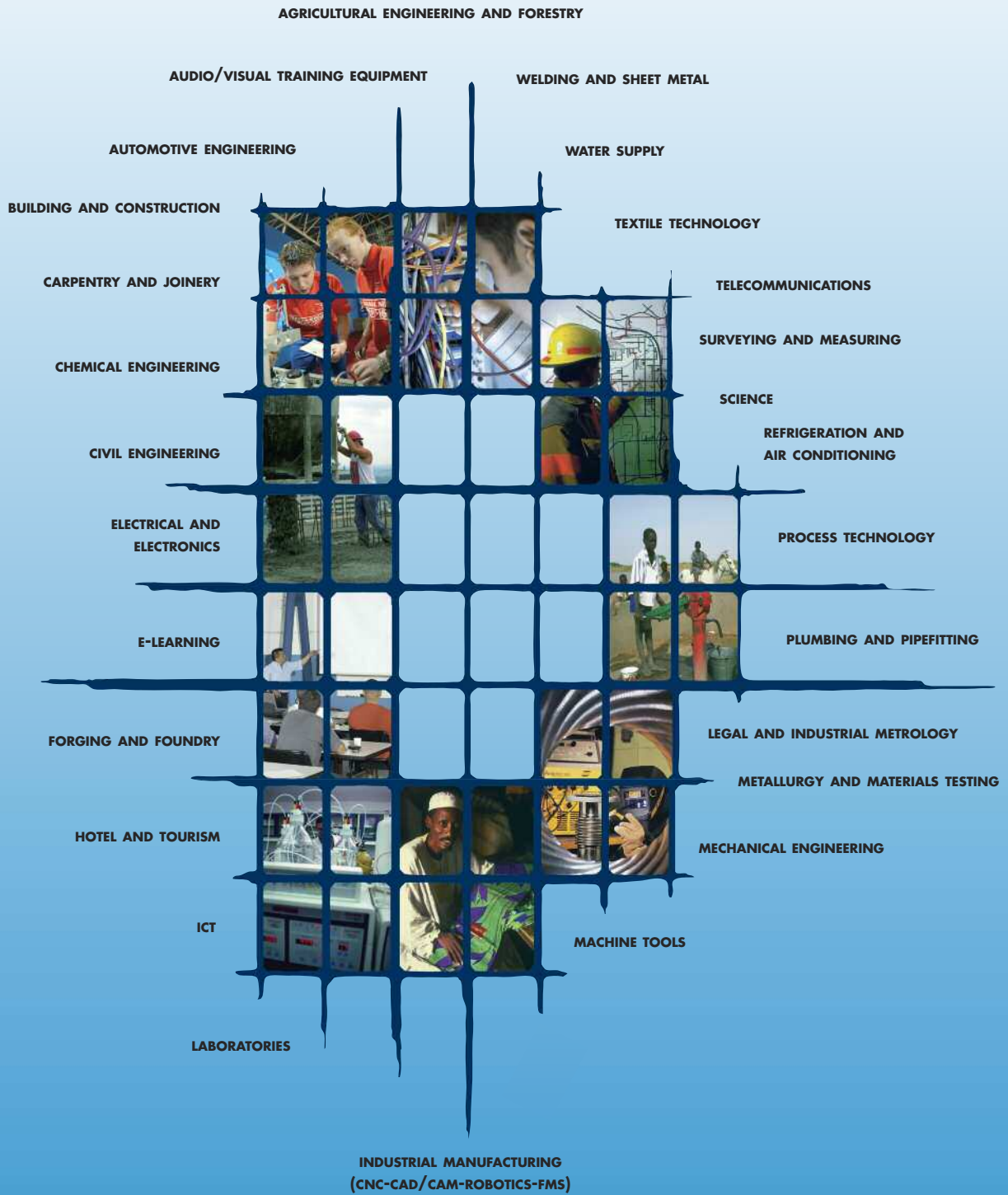
TECHNICAL SUPPLIES


Devotra is able to supply their customers a full range of technical supplies, such as hand tools, spare parts, consumables, raw materials, etcetera. This ensures a proper after sales support and the sustainability of the customers project on the long term.

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| <input type="checkbox"/> bearings | <input type="checkbox"/> valves |
| <input type="checkbox"/> drive components | <input type="checkbox"/> seals |
| <input type="checkbox"/> electrical components | <input type="checkbox"/> personal safety products |
| <input type="checkbox"/> hydraulic components | <input type="checkbox"/> abrasives |
| <input type="checkbox"/> detergents | <input type="checkbox"/> repair products |
| <input type="checkbox"/> welding material | <input type="checkbox"/> industrial lubricants |
| <input type="checkbox"/> filters | <input type="checkbox"/> lubricants |
| <input type="checkbox"/> exhaust systems | <input type="checkbox"/> brake parts |
| <input type="checkbox"/> ignition parts | <input type="checkbox"/> electrical parts |
| <input type="checkbox"/> electronic components | <input type="checkbox"/> fixtures |
| <input type="checkbox"/> plc's | <input type="checkbox"/> switch boards |
| <input type="checkbox"/> lightning | <input type="checkbox"/> cable |
| <input type="checkbox"/> sockets and plugs | <input type="checkbox"/> conduits |
| <input type="checkbox"/> relays | <input type="checkbox"/> testers |
| <input type="checkbox"/> painting tools | <input type="checkbox"/> fuses |
| <input type="checkbox"/> building tools | <input type="checkbox"/> building material |
| <input type="checkbox"/> paints | <input type="checkbox"/> nails |
| <input type="checkbox"/> fasteners | <input type="checkbox"/> oils |



SPECIALIZED AREAS



 Devotra B.V. | Energieweg 2 | 4691 SG | P.O. box 18 | 4690 AA Tholen | The Netherlands
Tel.: +31 166 609 500 | Fax: +31 166 609 509 | export@devotra.nl | www.devotra.nl