

Training brochure 2026

Industrial Training Programmes

Practical EPC engineering, project management and digital skills for students and working professionals, taught by trainers with decades of project experience, now including AI-assisted tools and energy-transition topics.



Energy Total Group

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Why train with us

Skills that EPC projects need now

Energy projects are short of experienced engineers, and employers expect new hires to be productive quickly, with digital tools as well as fundamentals. Our courses close that gap.

Taught by practitioners

Trainers come from leading EPC contractors and owners, with real design-office and site experience on oil & gas, LNG, power and pipeline projects.

Built on real projects

Exercises use the deliverables you will produce at work: P&IDs, layouts, isometrics, data sheets, calculations and schedules.

Ready for the digital workplace

Industry software, schedule analytics and the safe, effective use of AI assistants are part of the programme.

For fresh graduates

Degree and diploma holders in engineering who want a practical start in the EPC industry.

For working professionals

Engineers, designers and site staff moving into a new discipline, role or sector, and teams upskilling together.

Learning by doing, measured as you go

Live project work	Students apply their knowledge and software skills to deliverables based on real projects, so they know what is expected on the job.
Case studies	Real-world problems connect theory to practice and build analysis and decision-making skills.
Tests and assignments	Regular tests and assignments show what each student has understood and where to focus.
Group discussions	Discussions build communication skills and confidence, and help students identify their strengths and gaps.
Up-to-date courseware	Content is reviewed regularly with input from trainers and industry clients, covering current codes, standards and tools.
Career support	CV guidance, interview preparation and career counselling for each student.

Delivery formats

Learn online, in-company or blended

Live online classes

Instructor-led sessions with recordings and course material on our training portal. Join from anywhere.

In-company training

Programmes for your team at your office or project site, tailored to your projects, standards and software.

Blended programmes

Online theory combined with hands-on workshops and project assignments.

1.5–2

months for most weekday courses, about 2 hours a day

3.5

months for weekend piping stress analysis, about 3 hours a day

Certificate

and experience letter on successful completion

Courses for every EPC discipline

Engineering design

- Process design & engineering
- Piping design & engineering
- Piping stress analysis
- Electrical design & engineering
- Instrumentation design & engineering
- Civil & structural design
- Mechanical equipment design
- HVAC design & engineering
- Power plant engineering
- Offshore engineering fundamentals

Project management

- EPC projects fundamentals
- Project management fundamentals
- Procurement management basics
- Procurement engineering concepts
- Construction management basics
- Project quality management
- Risk management for EPC projects
- Module fabrication concepts

Site, operations & safety

- Construction engineer and supervisor training
- Construction crafts: welder, fitter, rigger, scaffolder, electrician, technician
- Plant equipment & machinery
- Plant operation & maintenance
- HSE basics

Digital & future skills New

- Digital project controls with Primavera P6 and schedule analytics
- AI tools for engineers and project teams
- Project dashboards and data reporting
- Energy-transition projects for EPC engineers
- Delay analysis and claims basics

New for 2026

Digital and future-skills modules

Digital project controls New

Building and updating Primavera P6 schedules, DCMA 14-point quality checks, earned value, Monte Carlo schedule risk and automated progress reporting.

Dashboards and data reporting New

Turning schedule, cost and progress data into clear dashboards and management reports.

AI tools for engineers New

Using AI assistants to draft, search and summarise documents, check calculations and prepare reports, with verification methods, data security and professional responsibility.

Energy-transition projects New

How hydrogen, carbon capture, renewables with storage and grid projects change scope, interfaces and risks for EPC engineers.

Also new: **delay analysis and claims basics**, drawing on the forensic schedule work of EPC Disputes Advisory, an Energy Total Group company.

Piping design & piping stress analysis

The design of piping systems is a major part of every process plant. This course builds the principles, standards and software skills used in plant layout, piping design and stress analysis.

What you will learn

- Oil & gas fundamentals and EPC project structure
 - Piping materials, specifications and codes
 - Fittings, flanges and valves
 - Process equipment and plant layout fundamentals
 - PFDs, P&IDs, plot plans and GA drawings
 - Piping isometrics and bills of material
- Hangers, supports and 2D / 3D software practice
 - Stress analysis methods and failure theories
 - Design pressure, temperature and wall thickness
 - Loads, thermal stresses and code criteria
 - Building stress models in software
 - Interview preparation

Course details

Piping design: 1.5 months, weekdays, 2 hours a day

Stress analysis: 3.5 months, weekends, 3 hours a day

Fees: on request

Career paths

- Piping designer and engineer
- Stress engineer
- Layout and 3D designer

Course outline

Electrical design & engineering

Electrical systems for industrial plants are usually learned slowly on the job. This course gives a structured foundation in the design work, standards and studies used on EPC projects.

What you will learn

- Electrical systems in EPC projects
- Client requirements, design basis and standards
- Plant electrical load estimation
- Single line diagrams and control schematics
- Equipment selection, sizing and data sheets
- Cable selection, sizing and routing
- Illumination design
- Earthing and lightning protection
- Hazardous area classification
- Substation and switchyard design
- Short circuit, load flow and motor starting studies
- BOQ, estimation and specifications

Course details

Duration: 2 months, weekdays, 2 hours a day

Fees: on request

Career paths

- Electrical design engineer
- Electrical project engineer
- Power plant and offshore electrical engineer

Instrumentation design & engineering

Instrumentation engineers make plants safe and controllable. The course covers instrument selection, documentation and installation design used on oil & gas and process projects.

What you will learn

- EPC industry overview and scope
 - Codes and standards
 - Design basis by plant type
 - Selecting instruments for flow, temperature, level and pressure
 - Vendor details and specifications
 - Installation and maintenance practice
- Instrument index and location plans
 - Process and instrument data sheets
 - Wiring layouts and logic diagrams
 - Loop drawings, JB layouts and cable schedules
 - Cable tray layouts and hook-up drawings
 - Introduction to PLC hardware

Course details

Duration: 2 months, weekdays, 2 hours a day

Fees: on request

Career paths

- Instrumentation design engineer
- Instrumentation project engineer
- Offshore instrumentation engineer

Civil & structural design engineering

Prepare structural, reinforced concrete and civil drawings to designers' sketches, specifications and codes of practice, for refineries, petrochemical, power and process plants.

What you will learn

- Industrial facilities and the civil engineer's role
 - Inputs from other disciplines and outputs
 - Analysis concepts and load calculations
 - Concrete design to codes and standards
 - Steel structure design to codes and standards
 - Equipment supporting structures and foundations
- Pipe racks and sleepers
 - Roads, drains, sewers, paving and dyke walls
 - Tank farm areas, boundary walls and gates
 - Local supports and platforms
 - Cooling towers, flare stacks and chimneys
 - Computer-aided analysis and design

Course details

Duration: 1.5 months, weekdays, 2 hours a day

Fees: on request

Career paths

- Civil and structural design engineer
- Structural designer and detailer
- Site and construction engineer

Mechanical equipment design and power plant engineering

Mechanical equipment design

Design, fabrication and quality control of static equipment for oil & gas and process plants.

- EPC concepts and oil & gas industry overview
- Role of the static equipment engineer
- PFDs, P&IDs, mechanical data sheets and fabrication drawings
- Codes and standards
- Pressure vessels, distillation columns, reactors and heat exchangers
- Boilers and storage tanks

Duration: 2 months, weekdays | **Fees:** on request

Power plant engineering

How power plants generate electricity, and how their main systems are designed, operated and maintained.

- Power plant fundamentals
- Boilers and auxiliaries
- Combustion and steam turbines
- Electrical generators
- Heat recovery steam generators (HRSG)
- Balance of plant, operations, maintenance and performance

Duration: 2 months, weekdays | **Fees:** on request

Industry software, taught by people who use it

Software covered

Smart Plant 3D	PDS / PDMS	MicroStation	AutoCAD	Tekla	ETAP
AutoPIPE	PIPEPHASE	CADPIPE	CAESAR II	INtools	STAAD Pro
HYSYS	PRO II	HTRI	CHVAC	HAP	PIPENET
Primavera P6					
AI assistants					

Lead trainers

R.P. Patel	General Manager, Piping Engineering: chemicals, petrochemicals, LNG, cryogenics and pipelines
Biman Roy Chaudhary	Civil & structural: onshore and offshore oil & gas
C.P. Shinghal	Mechanical: rotating equipment, onshore and offshore oil & gas
Sumer Jain	Project management, project controls and Primavera P6

Enrol

Start your next course

Ask us for the next batch dates, format and current fees, or a training programme for your team.

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For employers

We design in-company programmes around your projects and standards, and can supply trained engineers and designers for your teams.