TRAINING COURSES

CERTIFICATION & PG DIPLOMA COURSES FOR Oil & Gas / Chemicals/ Energy & Power industries.

www.mecciengineers.com
General Information

About Us

MECCI Engineers Pvt. Ltd. was established with a vision to provide proactive Training & Development for Design and Detailed Engineering Services in the field of Electrical, Mechanical, Instrumentation and all core engineering domains like Detailed Engineering, Procurement, Process Piping, and Plant Engineering & Electrical Systems Design. MECCI Engineers Pvt. Ltd. has a Mission is to actively participate in technological advancement of each and every technocrat so as to raise the standards of technical education in Indian and abroad, by providing quality, precise and required training and development programs in the field of core engineering.

MECCI Engineers Pvt. Ltd. was established in Noida, in the 2009 by a team of engineers and respected consultants in the field of engineering industry for more than 6 years. Through their working tenure as consultants, the team saw the need for high quality engineering training and decided to set up MEPL to meet demand – with their skills, experience and expertise, it seemed the logical thing to do! In the past 3 years since it was established the business has flourished, and MEPL is proud to have trained many in a range of mechanical and electrical disciplines. Our team of instructors are all engineering professionals who still practice and continue to participate in engineering field, ensuring that they deliver accurate, practical, and advanced training with the voice of their experience.

PEOPLE @ MECCI Engineers

MEPL team comprises of dynamic professional engineers and designers having over 40 yrs of collective experience in the design and construction of Industrial Plants including Oil, Gas, Chemical, Petrochemical/Process Plants, & Electrical Systems. People behind MEPL have trained thousands and they are our most important assets. Their talent is in dealing with our clients, teaching the courses, coordinating the complex corporate training assignments that we are given, ensuring that everything runs smoothly and striving for constant improvement are essential ingredients in the continuing aim for perfection.

MEPL “We deliver every word we said”

MEPL develops the training programs based on the practical requirement of the market with current market scenario that has been built up over the years in various specialist areas. We set out to teach top-quality engineering skills training courses and we have achieved this—we constantly strive to make them as good as it’s possible to but in the recent years we have also refined our methods, adding several enhancements to the construction stages of course description, design of the courses and assessment. We believe that these are important to our training participants; it’s easy to see what the courses consist of, what value they will gain from attending them and how they can apply their new knowledge and skills in their workplace in a structured and much needed way. Thousands of Engineers, Designers & Draftsmen, Technicians and Researchers have attended MEPL Training Programs. On a national basis, MEPL is now unquestionably one of the best professional training Company for Electrical/Piping/Plant Engineering course provider in the field of technology training. Many from outside India have also used MEPL as their training provider.
In-House Training

For Corporate:
Let us help you reduce travel expenses and receive special Corporate Training Programs. If your organization has a group of employees interested in a course topic, we can bring the training course to you. MECCI training courses can be taught at your company location or MECCI training centre. We will work with your training or HR department to deliver courses that meet your topical and scheduling needs. Send an email to sales@mecciengineers.com to explore your options.

For Colleges:
The In house campus training refines skills set to meet the industrial demands by connecting the academic knowledge with the skills required to work in the industry. The In house campus training program helps to bridge the skill gap between the needs of the industry and the academia production. The program must understands the employer needs, variable sector specific skills and training requirements that improve business performance, articulate business expectations in education institutions and engagement of industry leaders with technical education institutions. Globalization and industry has further increased the demand of such programs. Today, the world is getting smaller; the countries are dependent on one another for exchange of goods and services. Imports of commercial services have become important in recent times. The growth of an individual is therefore essential for the growth and the prosperity of a nation. The in house training program can not only help an individual to bend easily to the people at his work place but also to the people of the outside world. A positive change has to be brought about by the colleges and universities so that the students can face the challenges of life. The in house campus training program can help him in developing his personality and in boosting his confidence so that he can lead a contended and satisfactory life.

WHAT YOU WILL GAIN:

- Skills enhancement and competencies in all domains of engineering.
- Knowledge of the latest technologies in EPC Sector for Plant Engineering.
- Key techniques in operating your facility to the highest level of safety and in protecting the environment.
- Tremendous boost to your engineering career – no matter whether you are a new engineering graduate or a technician.
- Decades of real experience distilled into the program presentations and materials.
- Guidance from real EPC experts.
- Hands-on practical knowledge from lecturers with extensive real-world experience.
- Credibility as the local expert in Design & Detailed Engineering.
- Networking contacts in the oil and gas industry.
- Improved career prospects and income.
- Certification & PG diploma courses for Oil & Gas / Chemicals/ Energy & Power industries.
**Our key strengths are:**

- Skilled Manpower in Engineering
- Scalable resources
- Global Managerial experience
- Understanding customer requirements
- Work flexibility for our employees and maintain a symbiotic relationship even with their immediate families.
- Strong commitment to delivery and consistency in engineering processes.
- A relaxed atmosphere by hiring the best industry.

**SOME OF OUR TRAINING PROGRAMS ARE:**

- Process Design Engineering
- Electrical Design Engineering
- Piping Design Engineering
- Instrumentation Design Engineering
- Civil & Structural Design Engineering
- Piping Stress Analysis
- Project Management
- HVAC-R Design & Drafting
- Industrial Automation
- Mechanical Equipment Design

**Salient Features:**

- Live engineering projects.
- Excellent training material & case study material.
- Expert faculties who are currently working with minimum 8-10yrs of experience which helps the engineers to get real industry tips and feedback.
- Accommodation is available to outstation students.
- Independent hours for practice.
- Job opportunities after training.

“To enrol please contact query@mecciengineers.com”
Electrical Design & Detail Engineering

- Coordination with Other Disciplines
- Electrical Drawings, Documentation and Schematics
- Estimation of Plant Electrical Load
- Power Distribution
- Switchgear for Power Distribution
- Development of Single Line Diagrams (SLD)
- Control Schematics
- Selection and Sizing of Electrical Equipments
- Hazardous Area Classification and Selection of Equipments
- Cable Selection and Sizing
- Cable Routing
- Power System Protection and Co-ordination
- Electrical Safety and Grounding/Earthing, Bonding and Lightning Protection
- Power Quality, Uninterruptible Power Supplies, Surge Protection and Noise Control
- Illumination Design
- Sub-Station/ Switch Yard Layout and Design
- Procurement details of Electrical Equipment and Specification
- Electrical Applications to Oil & Gas / Chemicals/ Energy & Power industries.

Piping Design & Detail Engineering

- International codes & Standards using for piping system & its components.
- Plant layouts and work flow procedures
- Terminology and symbols used in plant layout
- Plot plans, Equipment Layouts, elevations and 3-D models
- Principles of chemical process technology
- Process flow diagrams (PFDs)
- Equipment used in process plants
- Instrument symbols and abbreviations
- Piping and instrumentation diagrams (P&IDs)
- Piping design and engineering principles
- Terminology, symbols and abbreviations used in piping design
- Piping materials
- Piping specifications and piping codes
- Components of piping systems - fittings, flanges and valves
- Piping isometrics and bill of materials

Process Design & Detail Engineering

- Industry and role of a Process Engineer for various facilities.
- Basic design requirements based on the types of plants / projects.
- Basic Engineering Package.
- Development of BFD, PFD, P&ID and PDS of equipments.
- Relevant Codes and Standards used in industry.
- Interlocks, Control Philosophy, Valves Selection and sizing, Safety valves sizing.
- Heat Exchanger Design (Thermal Design).
- Distillation Column Design.
- Available Software used in industry and their applications.
Instrumentation Design & Detail Engineering

- Oil & Gas / Chemicals/ Energy & Power industries interaction and Scope.
- Knowing Client requirements and collection of specific data for projects
- Relevant Codes & Standards
- Basic Design requirement based on the type of plant e.g. Chemical, Petrochemical, Pharmaceutical, Industrial, Power plant etc
- Preliminary Project design requirements
- Selection of Instruments for Controlling Flow, Temperature, level and Pressure
- Preparation of Hookup drawings
- The various Process Conditions
- Vendor's details and specification for all Instruments used to control Flow, Level, Temperature and Pressure
- Installation and maintenance Tips of all Instruments.
- Preparation Ladder Diagram
- Detailed Design of Instrumentation systems including Layouts
- Procurement Requirements
- Inspection of Equipments/system

Civil Design & Detail Engineering

- Basics of Structural Engineering
- Analysis & Design of Structures
- Steel Frame Connection
- 2D & 3D Modeling Structures
- 3D Structural Design
- Structural Analysis & Design.
- Stress & Failure Analysis.
- Foundation Design.
- Concrete Design & Analysis.
- Structural Evaluation.
- Steel Structure Design.
- Pre-Engineered Buildings.
- Construction Detailing & Drawings.
- Infrastructure Design.
- Storm Water & Sewage Design.
- Bridges, Roads, & Power Projects Design.
- Investigation & Failure Analysis.
- Proof Checking & Advisory Services.
- Application Design.
- Restoration & Rehabilitation of Structures.
- Analysis & Evaluation of Soundness of Structures.
- Structures, Tanks, Bins, Hoppers.
- Steel Analysis & Steel Design.
- Rain Water Harvest System.
“Upstream Petroleum Technology & Management”

Objective

To equip participants a better understanding & detailed knowledge of various activities in upstream petroleum technology & management in order to build a competent workforce which can perform to its best level as & when required.

MECCI Engineering training modules consists of broad range topics to fulfil the needs of petroleum & petrochemical engineering professional needs. We adopt latest methods, advanced techniques, updated technologies & best practices to prepare engineering professionals to deal more effectively with the technical challenges they face every day.

Upstream Petroleum Technology & Management is divided into two modules
• Basic Upstream Petroleum Technology & Management
• Advance Upstream Petroleum Technology & Management

Who Should Attend?

- Staff from Petroleum Companies at all levels
- New Hires in Upstream Process
- Operation & Maintenance Staff
- Executive Engineers
- Technicians

Also Useful to:

- Sales & Marketing Engineers
- Financial Managers
- Consultants & Investors
- Financial Managers & Insurance Representatives
Module-I: Introduction to Petroleum Technology

- Introduction to Petroleum Industry
- Introduction to Petroleum Terminologies
- Geology
- Exploration
- Production & Reserves
- Transportation of Oil & Gas
- Refining & Gas Processing
- Economics

Module-II: Overview of Reservoir Engineering

- Reservoir Definition & Development
- Classification of Reservoirs
- Reservoir Fluid & Rock Properties
- Production & Recovery
- Fundamentals of Drilling & Completion
- Production Operations
- Basic Concept of Primary & Enhanced Recovery Process

Module-III: Basics of Oil & Gas Processing Facilities

- Introduction to Gas & Liquid Flow Behaviour
- Gas Pipelines
- Valves & Safety Systems
- Flow Lines, Manifolds & Gathering System
- Mechanical Equipments
- Separation / Treatment System
- Oil Water Separation & Treatment
- Acid Gas Removal & Gas Dehydration System


- Recent Trends in Petroleum Engineering
- Petroleum Production Economics Worldwide
- Petroleum Risk Analysis
- Introduction to Petroleum Finance
- Introduction to International Laws
- Planning & Management

Module-V: Doubts Clearing Session

There will be one day doubt clearing interactive session for:

- Introduction to Petroleum Technology
- Overview of Reservoir Engineering
- Basics of Oil & Gas Processing Facilities
- Basics of Petroleum Economics & Management

For more information contact us:

MECCI Engineers Pvt. Ltd.
E-46, 3rd floor, Sec-3
Noida – 201301, INDIA
Landline No: +91 - 120 – 6543853
Mobile No: +91-9910988623, 9211788623
Email Id: query@mecciengineers.com

www.meccigroup.com
www.mecciengineers.com