



# ENERGY TOTAL GROUP

**An Institute of Engineering & Management Research  
(Authorized training Partner)**



**UNDER MINISTRY OF SKILL DEVELOPMENT &  
ENTREPRENEURSHIP, GOVT. OF INDIA  
(An ISO 9001:2008 Certified Company)**



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Website: - [energytotalgroup.com](http://energytotalgroup.com)**

## BUSINESS TRAININGS BY ENERGY TOTAL - AN INTRODUCTION

Dear Candidates

Greetings for the day!!!

Date:

**Energy Total Group is an Authorized Training Partner UNDER MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP** and also **An ISO 9001:2008 Certified** global market leader in providing high-level techno-management (EPC) business training services to Oil & Gas, Petrochemical, Hydrocarbon, Process Plants, Chemical, Power Generation, Shipbuilding, Steel Plant, Mining & Metals, Cement Plant, Utilities & Offsites, Telecommunication, Pipelines, Transmission & Distribution, Renewable energy, Commercial, Industrial Buildings, Material Handling Plant, Railways and Metro Rail etc.. Operating worldwide, our courses are widely acknowledged to meet the industry requirements for its highest quality and up-to-date information. Our success and distinguished reputation is down to our commitment to the industry, a high-level of expertise, sector knowledge, cultural diversity and experience that comes from organizing various courses.

The key objective of Energy Total is to provide an specialized, outstanding and smooth job / placement oriented and practical technology & management business education **which directly meet the industry needs** and help the candidate to get a **better and smooth job placement** along with having an upper edge over others and bring pride to everyone including self, family, institute, employer and last but not the least for us the Energy Total.

The finest experienced professional trainers from the industry with extensive real industry experience are drawn from around the world. The learning is gained through synchronous, technologies.

In the sphere of EPC business, **Energy Total** has taken rapid strides in empowering students as well as professionals with skills to meet the challenges for the above Industries. Our Training programs are based on sound engineering & management principles and methodology, applicable code and standards requirements and best industrial practices. The various training modules are available both from On-Shore and Off-Shore Industry.



## Curriculum

- The comprehensive ever evolving curriculum is designed by the inputs from industry experts we update content and format whenever necessary on a regular basis to ensure participants are only learning relevant and practical skills and insights.

## Group Discussions

- Group Discussions play an important role in bringing out a person's strengths and weaknesses, of which sometimes even he/she is not aware of. Our trainers are committed to help our students to overcome their weaknesses so that they come out as a winner.

## Tests & Exams

- Compulsory Tests and Exams are conducted regularly as they let us assess and help us find out if the students are learning and understanding whatever is being taught to them and their ability to utilize it when the situation demands it.

## Live Projects

- Live Projects offer students great opportunity in understanding of what is expected of them at the job. Working on project enables them to put all their knowledge and software skill that they have acquired in their course, to use in the curriculum.

## Assignments

- Assignments are an integral part of any education, as they not only provide the insight of what a student has absorbed in the class but also how he put it to use. The procedure to be followed by the students in doing the work assigned must be explained by the teacher to make the study period effective.

## Magazine & Journals

- Students are encouraged to read course relevant Magazines and Journal, as Journal and Magazine deliver an interdisciplinary view into engineering trends and breakthroughs, giving students a roadmap to better understand today's technology and tomorrow's innovations .

## Case Studies

- Case studies encourage students can explore how & what they have learned applies to real world situations. This facilitates interaction with the material and with peers, requiring the practice of skills of information retrieval, selection, analysis and synthesis Case-based learning is embedded in constructivist theory as students make meaningful connections between their prior knowledge and the case materials.

## Courseware

- Our courseware is developed from several sources. First, we provide course content that meets and exceeds the requirement. Secondly, our distinguished faculty contributes their own experience and knowledge to keep the curriculum updated and precise. Lastly, we collect inputs from our esteemed clients about any new trends emerging or any new advancements made, which is then incorporated.

## An upper edge

- Live Project Training
- Printed Study Materials
- Accommodation is available for Outstation Candidates separately for Male and Female,
- In Plant Visit for Special Courses
- Faculties are well experienced and from relevant Oil & Gas and Energy Sector,
- 100% Job Oriented Training Program including Career Consulting & Guidance



- Hands-on Training on Leading Technology & Management Software Tools

### **Major Course module includes:**

- EPC Projects Fundamentals
- Process Design & Engineering,
- Piping Design & Engineering,
- Electrical Design & Engineering,
- Instrumentation Design & Engineering
- Plant Equipments & Machineries
- Civil Design & Engineering
- Structural Design & Engineering
- Project Management Fundamentals
- Procurement Management Basics
- Construction Management Basics
- Project Quality Management Basics
- Health Safety and Environment (HSE) Basics
- Risk Management (EPC Projects) Fundamentals
- Off-Shore Engineering Fundamentals
- Heating Ventilation and Air Conditioning (HVAC) Design & Engineering
- Procurement Engineering Management Concepts
- Module Fabrication (EPC Contracts) Concepts
- Construction (Fabrication & Erection) Engineer / Supervisor Training for Site
- Construction Fabrication & Erection Crafts Training for Civil, Structural, Piping, Equipment, Electrical, Instrumentation & Telecom work at site ( Welder / Fitter / Mason / Rigger / Scaffolder / Electrician / Technician)
- Plant Operation & Maintenance Training

ENERGY TOTAL Group is striving to become the world's best Training Company realizing customer satisfaction with the best solutions and services meeting Quality, HSE standards, Schedule & Budget etc.

Our Faculty / Trainers are equipped with knowledge of all advanced engineering and Project Management software such as Smart Plant 3D, PDS / PDMS / MICROSTATION / Auto-Cad / TEKLA / ETAP / AUTOPIPE / PIPEPHASE / CADPIPE / CAESER II / INTOOLS / STAAD PRO / X- STEEL / HYSIS / PRO II / HTRI / CHVAC / HAP, Primavera P6 / PERT Master etc., to prepare all sort of Design & Detail Engineering, EPCM and As-Built Plant work etc..

We Should you have any requirements as per our above mentioned comprehensive group / consortium profile, please feel free to call or e-mail us. It will be an honor for us to work with such an esteem organization and provide our services to you. If a fair chance is given to us, we assure you to provide full satisfaction and fulfill all your requirements at proper intervals of time. We always strive to build long term and healthy business relationship with you.

Please feel free to contact us through Personal meeting, phone call, e-mail or website business enquiry etc...

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## **PIPING DESIGN TRAINING MODULE- TRAINING MODULE**

Dear Candidates,

Greetings for the day!!!

**Energy Total Group is an Authorized Training Partner UNDER MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP and also An ISO 9001:2008 Certified Training Company for Oil & Gas / Petrochemical/ Chemical/Refinery/Energy Sector**

Offers **Piping Design engineering** courses for working and fresher engineers with 100% job assistance.

### **Course Objectives:**

The design, engineering and construction of process plants involve a multidisciplinary team effort. Plant layout and design of piping systems constitutes a major part of the design and engineering effort. The goal is to design safe and dependable processing facilities in a cost effective manner. The fact is that there are very few formal training programs that focus on design and engineering of process plants and piping systems. Therefore, most of the required skills are acquired while on the job, reducing productivity and efficiency.

The objective of this program is to provide students the basic knowledge and skills in this discipline to facilitate faster learning curves while on the job. This program will cover the fundamental principles and concepts used in process plant layout and piping design. Upon completion of this program students will have a clear understanding of the design and engineering principles used in plant layout and piping design.

### **Course Structure**

#### **What You Will Gain? (Piping Stress Analysis)**

- How Stress analysis is carried out in piping systems
- The fundamental aspects related to selection of piping materials.
- The objective and scope of piping codes.
- The theory behind piping system stresses and failure theories.
- The basis for determining the design pressure and temperature condition.
- The methods employed to determine pipe wall thickness.
- Piping system loads and their characteristics along with code criterion for designing piping systems.
- The design criteria for thermal stresses in piping systems.
- The significance of pipe stress analysis software in general, with particular emphasis on procedures used in the creation of stress models.
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#### **What Will You Learn? (Piping Design Engineering)**

- Fundamental of Oil & Gas Engineering
- Concept of EPC (Engineering Procurement Construction) Projects
- Overview of Oil & Gas Industry
- 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

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- Introduction to Process Plant equipments
- Plant layout fundamentals and work flow procedures
- Terminology and symbols used in plant layout
- Instrument symbols and abbreviations
- Process flow diagrams (PFDs)
- Piping and instrumentation diagrams (P&IDs)
- Plot Plan, Equipment Layout, Piping Layout, GA Drawing etc.
- Piping isometrics and bill of materials
- Piping Hangers and Supports
- 2D & 3D Piping Software Practices
- Interview Preparation

### Course Details:

Registrations open at Energy Total Offices and online too.

<b>Piping Design Engineering</b> Fee: 40,000 ( Excluding Tax)	Degree/Diploma in Mechanical Engineering ( Fresher & Experienced)	<b>1.5 Months</b>	<b>Weekdays (Mon-Fri)</b> <b>2 Hours/Day</b>
<b>Piping Stress Analysis</b> Fee: 20,000 ( Excluding Tax)	Degree/Diploma in Mechanical/Piping Engineering ( Experienced)	<b>3.5 Months</b>	<b>Weekend (Sat-Sun)</b> <b>3 Hours/Day</b>

For Further Details & Free DEMO Class please call at  
**Noida: -09540118042; 0120-6405532**  
 Apply online: <http://www.EnergyTotalgroup.com/> or  
 You can send email on [info@energytotalgroup.com](mailto:info@energytotalgroup.com) or  
 Visit: <http://EnergyTotalgroup.com/>

### Why Energy Total?

Energy Total is the ultimate choice for all the working & non-working engineer's in Oil & Gas Sector training requirements. Our extensive portfolio of energy training courses is:

- 100% focused on the Oil and energy industry.
- Guided by the industry's renowned professionals with unprecedented knowledge of the Oil and energy Industry.
- Highly interactive program with practical and relevant case studies.
- Training by extensively researched self-developed cutting edge techniques.
- Skill development techniques with comprehensive set of documentation, practical skills and tools used in the Industry.
- The perfect opportunity to develop network and experiences with knowledge sharing.
- Designed for both Fresh engineers and working professionals to attain growth in oil and energy Industry. Interactive, interesting and motivational training sessions.
- Access to enormous reference books and research materials.

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