

Training Title

ENGINEERING DRAWING CODES & STANDARDS

Training Duration

5 days

Training Venue and Dates

REF ME081	Engineering Drawing Codes & Standards	5	06-10 MAY	\$4,250	Dubai, UAE
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In any of the 5 star hotel. The exact venue will be informed soon.

Training Fees

- 4,250 US\$ per participant including Materials/Handouts, Tea/Coffee Refreshments & International Buffet Lunch.

Training Certificate

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

INTRODUCTION & DESCRIPTION

All over the years the industry has accumulated its experience in standards and codes which stipulates the minimum requirements to have a safe and economic products serving to the benefit of the project stakeholders.

Every company should select from industry standards and codes and develop its standard which is its internal law responding to the minimum requirements normally set by the regulations and laws in the country where the company operates.

The industry and company standards are interrelated in a way to build on the accumulated experience and mutual benefit for each party.

COURSE OBJECTIVES:

To provide trainees with the basic knowledge of industry standards and standardization bodies as well as the concept of standards, codes and specifications.

Explain how to read and understand the articles and language of standards and codes. At the end of this practical workshop, participants would have Practical hands-on experience creating and reading engineering drawings.

TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

TRAINING OUTCOME

- On completion of the course, trainees shall be able to interpret and understand the standards structure and able to locate the answers for specific enquiries from the company standards. At the end of this practical workshop, participants would have Practical hands-on experience creating and reading engineering drawings.

WHO SHOULD ATTEND?

Operations and maintenance Engineers, senior engineers, supervisors, section heads, department heads from operation, maintenance, planning, contracts, procurement, supervisors whom their job duties require handling of Engineering drawings

DAILY OUTLINE

Following Topics will be covered in details.

Day 1

- Project life cycle and development phases.
- Engineering design from concept to reality.
- Standards and standardizing societies.
- History of codes development.
- Briefing on codes common to petroleum industries API, ASME, NFPA
- Evolution of European codes and normatives.

Day 2

- Engineering drawings developed during different design phases.
- Conceptual design inputs and deliverables
- Front end design phase
- Detailed design and supply specifications and drawings
- Drawings and specifications revisions

Day 3

- Plant piping systems drawings and symbols according to ASME B31.3
- Pipe and fittings specifications and standards
- PFD, P&IDs, Isometric, GA drawings
- Plant equipment and standards for each type
- Fluid power diagrams and control systems

Day 4

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- Drafting line types and standards.
- Geometrical Dimensioning & Tolerances.
- Modeling of Equipments, Piping, Pipe rack, Structures & Electrical cable trays
- Plant modeling software packages
- Conflicts and corrective measures

Day 5

- Preparation of MTO
- Material selection and standards referenced
- ASTM material standard specifications
- Material quality control and certificates requirements.
- Case study of CAD software applied to project piping drawing

Case Studies

ASME and API organization and codes and development process shall be studied applying the basic concepts addressed through the course

NOTE:

Pre & Post Tests will be conducted

Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.

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