



*Training Course:
Process Equipment & Piping Systems*

*11 - 15 July 2027
Cairo (Egypt)*

Training Course: Process Equipment & Piping Systems

Training Course code: EN6037 From: 11 - 15 July 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Process equipment and piping systems are the backbone of industrial operations in sectors such as oil & gas, petrochemicals, power generation, and manufacturing. Their proper design, operation, and maintenance are essential to ensure safe, efficient, and continuous plant performance.

This program, designed by Global Horizon Training Center, equips participants with comprehensive knowledge of process equipment and piping systems, focusing on design principles, operation, inspection, and performance optimization.

Course Objectives

By the end of this program, participants will be able to:

- Understand the functions and design of process equipment
- Identify different types of piping systems and components
- Interpret PFDs and P&IDs
- Apply fluid flow and pressure concepts in piping systems
- Ensure proper installation and operation of equipment
- Perform inspection and maintenance activities
- Identify and mitigate operational risks
- Optimize system performance and reliability

Target Audience

This program is designed for:

- Mechanical and Process Engineers
- Piping and Pipeline Engineers
- Maintenance and Reliability Engineers
- Oil & Gas and Industrial Professionals
- Inspection and Integrity Engineers
- Technical staff involved in plant operations

Outline

Day 1: Fundamentals of Process Equipment and Systems

- Overview of process plants and operations
- Types of process equipment pumps, compressors, heat exchangers
- Introduction to piping systems
- Process flow diagrams PFDs
- Safety considerations

Day 2: Piping Systems and Design Principles

- Types of piping systems and layouts
- Pipes, fittings, valves, and supports
- Materials and specifications
- Codes and standards ASME B31
- P&ID interpretation basics

Day 3: Fluid Flow and System Behavior

- Fluid mechanics fundamentals
- Pressure drop and flow control
- Pump and system curves
- Flow measurement basics
- System balancing

Day 4: Installation, Operation, and Maintenance

- Equipment installation and alignment
- Piping installation and testing
- Operation and monitoring
- Preventive and predictive maintenance
- Troubleshooting basics

Day 5: Integrity, Optimization, and Case Studies

- Inspection and integrity management
- Corrosion and erosion control
- Risk assessment and safety
- Performance optimization
- Case studies and real-world applications

Registration form on the Training Course: Process Equipment & Piping Systems

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
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