



*Training Course:
Process Equipment & Piping Systems*

13 - 17 September 2026

Cairo (Egypt)

Holiday Inn & Suites Cairo Maadi, an IHG Hotel

Training Course: Process Equipment & Piping Systems

Training Course code: EN6037 From: 13 - 17 September 2026 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel 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

Training Course code: EN6037 **From:** 13 - 17 September 2026 **Venue:** Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel **Training Course Fees:** 4410 € Euro

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

Delegate Information

Full Name (Mr / Ms / Dr / Eng):
 Position:
 Telephone / Mobile:
 Personal E-Mail:
 Official E-Mail:

Company Information

Company Name:
 Address:
 City / Country:

Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng):
 Position:
 Telephone / Mobile:
 Personal E-Mail:
 Official E-Mail:

Payment Method

- Please find enclosed a cheque made payable to Global Horizon
- Please invoice me
- Please invoice my company

Easy Ways To Register

Telephone:
+201095004484 to
provisionally reserve your
place.

Fax your completed
registration
form to: +20233379764

E-mail to us :
info@gh4t.com
or training@gh4t.com

Complete & return the
booking form with cheque
to: Global Horizon
3 Oudai street, Aldouki,
Giza, Giza Governorate,
Egypt.