



*Training Course:
Installation of Natural Gas Distribution Networks
and Infrastructures*

*21 - 25 September 2026
Cape Town (South Africa)
DoubleTree by Hilton Cape Town - Upper Eastside*

Training Course: Installation of Natural Gas Distribution Networks and Infrastructures

Training Course code: EN235269 From: 21 - 25 September 2026 Venue: Cape Town (South Africa) - DoubleTree by Hilton Cape Town - Upper Eastside Training Course Fees: 7500 € Euro

Introduction

Natural gas distribution networks are essential for delivering energy safely and efficiently to residential, commercial, and industrial users. Proper installation of these networks requires a thorough understanding of design standards, materials, safety practices, and regulatory requirements to ensure system integrity and long-term reliability.

This program, designed by Global Horizon Training Center, provides participants with the technical knowledge and practical skills required to install, test, and commission natural gas distribution networks and supporting infrastructures in compliance with international standards.

Course Objectives

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

- Understand the fundamentals of natural gas distribution systems
- Identify components and materials used in gas networks
- Interpret network design drawings and specifications
- Apply best practices in pipeline installation and infrastructure development
- Perform testing, commissioning, and system validation
- Ensure compliance with safety standards and regulations
- Implement quality control and inspection procedures
- Identify and mitigate installation risks

Target Audience

This program is designed for:

- Pipeline and Civil Engineers
- Mechanical and Gas Network Engineers
- Construction and Project Engineers
- Site Supervisors and Technicians
- HSE and Safety Professionals
- Contractors involved in gas network installation

Outline

Day 1: Fundamentals of Natural Gas Distribution Systems

- Overview of natural gas distribution networks
- Types of distribution systems low, medium, high pressure
- Key components: pipelines, valves, regulators, meters
- Gas properties and safety considerations
- Introduction to standards and codes ASME, ISO, local regulations

Day 2: Materials, Equipment, and Design Basics

- Pipeline materials steel, PE, composites
- Selection criteria for materials and equipment
- Reading and interpreting engineering drawings
- Basic design considerations and routing
- Network layout and infrastructure planning

Day 3: Installation Practices and Construction Methods

- Trenching, laying, and backfilling techniques
- Pipe joining methods welding, fusion, mechanical joints
- Installation of valves, regulators, and fittings
- Site preparation and construction safety
- Quality assurance during installation

Day 4: Testing, Commissioning, and Inspection

- Pressure testing and leak detection
- Inspection methods and procedures
- Commissioning steps and system start-up
- Documentation and certification
- Troubleshooting installation issues

Day 5: Safety, Compliance, and Maintenance Considerations

- HSE requirements in gas network installation
- Risk assessment and hazard control
- Regulatory compliance and audit readiness
- Preventive maintenance considerations
- Case studies and practical applications

Registration form on the Training Course: Installation of Natural Gas Distribution Networks and Infrastructures

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

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3 Oudai street, Aldouki,
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