



*Training Course:
Transmission Pipeline Facilities Control Room
Operations*

13 - 24 September 2026

Cairo (Egypt)

Holiday Inn & Suites Cairo Maadi, an IHG Hotel

Training Course: Transmission Pipeline Facilities Control Room Operations

Training Course code: EN235643 From: 13 - 24 September 2026 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 6950 € Euro

Introduction

Control rooms are the operational nerve centers of transmission pipeline facilities, responsible for monitoring, controlling, and ensuring the safe and efficient transportation of oil, gas, and other products. Operators must manage real-time data, respond to system abnormalities, and coordinate field operations while maintaining strict safety and regulatory compliance.

This 10-day advanced training program, developed by [Global Horizon Training Center](#), provides a comprehensive approach to control room operations for transmission pipeline systems. It covers SCADA systems, monitoring techniques, operational procedures, alarm management, safety protocols, and emergency response.

Participants will gain the knowledge and practical skills required to operate control rooms effectively, manage pipeline operations, and respond to incidents in real time.

Course Objectives

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

- Understand pipeline control room operations and responsibilities
- Operate SCADA systems for monitoring and control
- Interpret real-time data and system parameters
- Manage alarms and abnormal conditions
- Apply operational procedures and safety protocols
- Coordinate with field teams and stakeholders
- Respond to emergencies and incidents effectively
- Ensure compliance with industry standards and regulations

Target Audience

- Control Room Operators
- Pipeline Engineers and Supervisors
- SCADA and Automation Engineers
- Operations and Maintenance Personnel
- HSE and Safety Professionals

Outline

Day 1: Introduction to Pipeline Control Room Operations

- Role and functions of control rooms
- Overview of transmission pipeline systems
- Operator responsibilities and workflows
- Industry standards and best practices

Day 2: SCADA Systems and Architecture

- SCADA system components and structure
- Data acquisition and communication systems
- Human-Machine Interface HMI
- System configuration basics

Day 3: Monitoring and Data Interpretation

- Key pipeline parameters pressure, flow, temperature
- Real-time monitoring techniques
- Data analysis and trending
- Performance indicators

Day 4: Operational Procedures and Control Strategies

- Start-up, shutdown, and normal operations
- Flow control and pressure management
- Pump and compressor control
- Operational optimization

Day 5: Alarm Management and Abnormal Situations

- Alarm systems and prioritization
- Handling abnormal operating conditions
- Root cause identification
- Alarm rationalization

Day 6: Pipeline Integrity and Leak Detection

- Leak detection systems LDS
- Integrity monitoring techniques
- Corrosion and pipeline degradation
- Preventive measures

Day 7: Safety and Risk Management

- Hazard identification and risk assessment
- Safety management systems
- Compliance and regulatory requirements
- Human factors in control room operations

Day 8: Emergency Response and Incident Management

- Responding to pipeline incidents leaks, ruptures

- Emergency shutdown procedures
- Incident command and coordination
- Communication during emergencies

Day 9: Coordination and Communication

- Coordination with field operations
- Communication protocols and reporting
- Shift handover procedures
- Documentation and recordkeeping

Day 10: Simulation, Case Studies & Final Workshop

- Control room simulation exercises
- Real incident case studies
- Decision-making under pressure
- Group project and evaluation
- Final review and feedback

Registration form on the Training Course: Transmission Pipeline Facilities Control Room Operations

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3 Oudai street, Aldouki,
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