



*Training Course:
Advanced Pipeline Operations and Maintenance*

*19 - 30 July 2027
Kuala Lumpur (Malaysia)*

Training Course: Advanced Pipeline Operations and Maintenance

Training Course code: EN235416 From: 19 - 30 July 2027 Venue: Kuala Lumpur (Malaysia) - Training Course Fees: 11150
€ Euro

Introduction

Pipeline systems are critical infrastructure in the oil and gas industry, requiring advanced operational control and maintenance strategies to ensure safety, reliability, and efficiency. Effective pipeline management minimizes risks, prevents failures, and ensures continuous product flow across long distances.

This program, designed by Global Horizon Training Center, provides participants with advanced knowledge and practical skills to manage pipeline operations, implement maintenance strategies, and enhance system integrity over a 10-day intensive training.

Course Objectives

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

- Understand advanced pipeline system operations and flow dynamics
- Apply best practices in pipeline monitoring and control
- Develop preventive and predictive maintenance strategies
- Identify and mitigate pipeline risks and integrity threats
- Perform inspection and integrity management activities
- Analyze failures and implement corrective actions
- Ensure compliance with international safety and operational standards
- Optimize pipeline performance and operational efficiency

Target Audience

This program is designed for:

- Pipeline and Process Engineers
- Operations and Maintenance Engineers
- Integrity and Inspection Engineers
- Oil & Gas Field and Control Room Personnel
- HSE and Risk Management Professionals
- Supervisors and Technical Specialists in pipeline operations

Outline

Day 1: Pipeline Systems Overview and Operations

- Types of pipelines and system components
- Pipeline flow principles and hydraulics
- Overview of pipeline operations and control
- Key operational challenges

Day 2: Flow Assurance and Operational Efficiency

- Flow assurance challenges wax, hydrate, corrosion
- Pressure and temperature management
- Pigging operations and scheduling
- Optimizing flow conditions

Day 3: Pipeline Monitoring and Control Systems

- SCADA systems and real-time monitoring
- Leak detection systems and techniques
- Data acquisition and performance tracking
- Alarm management

Day 4: Maintenance Strategies and Planning

- Preventive vs. predictive maintenance
- Maintenance planning and scheduling
- Resource allocation and cost considerations
- Maintenance documentation

Day 5: Inspection and Integrity Management

- Pipeline inspection methods ILI, smart pigs
- Corrosion monitoring and control
- Integrity management systems
- Risk-based inspection

Day 6: Failure Analysis and Troubleshooting

- Common pipeline failures and causes
- Root cause analysis techniques
- Troubleshooting operational issues
- Corrective and preventive actions

Day 7: Safety and Risk Management

- HSE practices in pipeline operations
- Hazard identification and risk assessment
- Emergency response planning
- Incident investigation

Day 8: Standards, Compliance, and Regulations

- Overview of international standards API, ASME

- Regulatory requirements and compliance
- Documentation and reporting
- Audit preparation

Day 9: Advanced Technologies in Pipeline Management

- Digitalization and smart pipeline systems
- Use of AI and data analytics
- Remote monitoring and automation
- Performance optimization techniques

Day 10: Integration and Case Studies

- Integration with upstream and downstream operations
- System optimization and performance review
- Lessons learned and best practices
- Case studies and real-world applications

Registration form on the Training Course: Advanced Pipeline Operations and Maintenance

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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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