

OIL & GAS PIPELINES - SECURITY SYSTEMS & PLANNING

“Safeguarding Critical Infrastructure: Strategic Planning for Pipeline Security”

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

► **Available delivery methods:** Face-to-Face & Online Training, In-House Training

Introduction

This course is designed to equip participants with comprehensive knowledge and practical skills related to the security of oil and gas pipeline infrastructure. It focuses on identifying vulnerabilities, assessing threats, and developing robust security systems and response strategies in alignment with global best practices and regulatory requirements.

Objectives

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

- Understand the architecture and vulnerabilities of pipeline systems.
- Analyze key threats, including terrorism, sabotage, and cyber-attacks.
- Design integrated physical and cyber-security frameworks.
- Develop emergency response and business continuity plans for pipeline incidents.
- Align pipeline security programs with national and international standards

Why Attend

With rising global threats and increased regulatory scrutiny, ensuring the resilience of oil and gas pipelines is more important than ever. This course provides practical tools and strategic insight to protect critical assets, avoid disruptions, and ensure safety and compliance.

Target Audience

- Security and risk managers in oil & gas
- Pipeline engineers and operations managers
- HSE and emergency response professionals
- Regulators and government officials
- Infrastructure planning specialists

Individual Benefits

- Master modern pipeline security technologies and planning strategies
- Increase awareness of threat intelligence and countermeasures
- Improve compliance with international security standards
- Strengthen personal credentials in pipeline security management

Organizational Benefits

- Reduced risk of pipeline sabotage, theft, or cyber intrusion
- Enhanced crisis response and continuity planning
- Better alignment with global regulatory and security frameworks
- Lower insurance costs through demonstrable risk mitigation

Instructional Methodology

- Interactive lectures
- Real-world case studies and threat analysis
- Group workshops and role-playing
- Video simulations and scenario-based exercises
- Final day group project and assessment

Course Outline

DETAILED 5-DAY COURSE OUTLINE (CUSTOMIZABLE) Training Hours: 7:30 AM – 3:30 PM **Daily Format:** 3–4 Learning Modules

Coffee Breaks: 09:30 & 11:15 Lunch Buffet: 01:00 – 02:00

Day 1: Pipeline Infrastructure and Threat Landscape

- Module 1: Introduction to Pipeline Systems & Security Challenges (07:30 – 09:30)
- Module 2: Identifying Vulnerabilities and Threat Typologies (09:45 – 11:15)
- Module 3: Global Incidents and Lessons Learned (11:30 – 01:00)
- Module 4: Workshop – Pipeline Security Risk Mapping (02:00 – 03:30)

Day 2: Physical & Technical Security Measures

- Module 1: Intrusion Detection and Monitoring Systems (07:30 – 09:30)
- Module 2: Barriers, Access Control & Surveillance Technologies (09:45 – 11:15)
- Module 3: Control Room Architecture and Monitoring (11:30 – 01:00)
- Module 4: Practical Exercise – Planning a Security Layout (02:00 – 03:30)

Day 3: Cybersecurity for Pipeline Systems

- Module 1: OT and ICS Security for Pipelines (07:30 – 09:30)
- Module 2: Threat Intelligence and Incident Response Planning (09:45 – 11:15)
- Module 3: Cyber Risk Assessment and Mitigation (11:30 – 01:00)
- Module 4: Simulated Cybersecurity Breach & Response (02:00 – 03:30)

Day 4: Crisis Response, Regulations & Continuity Planning

- Module 1: Emergency and Contingency Planning (07:30 – 09:30)
- Module 2: National and International Security Regulations (09:45 – 11:15)
- Module 3: Business Continuity and Recovery Planning (11:30 – 01:00)
- Module 4: Peer Review – Pipeline Emergency Drill Planning (02:00 – 03:30)

Day 5: Integration, Review, and Certification Project

- Module 1: Integrated Security Strategy Development (07:30 – 09:30)
- Module 2: Final Project – Develop a Pipeline Security Plan (09:45 – 11:15)
- Module 3: Group Presentations and Peer Evaluation (11:30 – 01:00)
- Module 4: Assessment & Certification Ceremony (02:00 – 03:30)

Certification

Upon successful completion, participants will receive a Certificate of Completion in “Oil & Gas Pipelines – Security Systems & Planning,” recognized for CPD credits and aligned with international oil & gas safety and security standards.

Why Choose MAWA Events

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In-House / Customized Training

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