

OIL AND GAS PIPELINES - SECURITY SYSTEMS AND PLANNING

"Ensuring the Integrity and Security of Critical Pipeline Infrastructure"

Schedule

Date	Venue	Fees (Face-to-Face)
06 - 10 Jul 2026	London, UK	USD 3495 per delegate

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

Introduction

This intensive course equips professionals in the oil and gas sector with the knowledge and skills to design, implement, and manage robust security systems for pipeline operations. It covers the full security planning cycle, including risk assessment, system selection, incident response, and regulatory compliance, to safeguard assets against physical and cyber threats.

Objectives

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

- Understand the security risks facing oil and gas pipeline operations
- Conduct thorough risk assessments and vulnerability analyses
- Design and implement effective physical and electronic security systems
- Develop emergency preparedness and response plans
- Ensure compliance with international security standards and regulations

Why Attend

- Learn best practices in pipeline security management
- Minimize risk exposure and enhance operational resilience
- Improve response capabilities for security incidents
- Gain hands-on insights into modern surveillance and detection technologies
- Strengthen alignment with regulatory and stakeholder expectations

Target Audience

This program is designed for:

- Pipeline operations and security managers
- Risk management and HSE professionals
- Security system designers and engineers
- Compliance and regulatory officers
- Emergency response coordinators and planners

Individual Benefits

Key competencies that will be developed include:

- Pipeline security risk assessment
- Physical and cyber security system design
- Incident management and response planning
- Regulatory compliance expertise
- Integration of security technologies into pipeline operations

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced security posture across pipeline assets
- Reduced potential for security breaches and disruptions
- Improved coordination of security, operations, and emergency teams
- Alignment with global best practices and standards
- Strengthened reputation and stakeholder confidence

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Interactive expert-led presentations
- Case study analyses of real-world incidents
- Hands-on exercises and group discussions
- Simulation activities and role-playing
- Application workshops and action planning

MAWA EVENTS

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Course Outline

Detailed 5-Day Course Outline

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: Understanding Pipeline Security Landscape

- Module 1: Overview of Oil and Gas Pipeline Operations
- Pipeline functions and critical assets
- Global security landscape and trends
- Module 2: Security Risks and Threats
- Physical threats: sabotage, theft, terrorism
- Cybersecurity challenges and vulnerabilities
- Module 3: Regulatory and Compliance Framework
- International and national security regulations
- Industry standards and best practices

Day 2: Risk Assessment and Vulnerability Analysis

- Module 4: Conducting Security Risk Assessments
- Identifying critical points and weak links
- Methods for assessing risk levels
- Module 5: Vulnerability Analysis Techniques
- Tools and approaches for threat analysis
- Integrating assessment outcomes into planning
- Module 6: Workshop – Case Study Risk Evaluation
- Applying risk assessment tools to real scenarios
- Group presentation of findings and solutions

Day 3: Security Systems and Technology Solutions

- Module 7: Physical Security Measures
- Access control, barriers, and fencing
- Surveillance systems and intrusion detection
- Module 8: Electronic Security and Monitoring
- Sensor networks, control rooms, and alarms
- Integration of SCADA and security systems
- Module 9: Workshop – Designing Security System Layouts
- Developing system plans for sample pipelines
- Group feedback and optimization

Day 4: Emergency Preparedness and Response

- Module 10: Developing Security Response Plans
- Incident response frameworks and escalation paths
- Roles and responsibilities in emergencies
- Module 11: Crisis Communication and Coordination
- Internal and external stakeholder communication
- Maintaining business continuity
- Module 12: Simulation Exercise – Emergency Scenario
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Role-playing response to a simulated incident

- Evaluating team coordination and decision-making

Day 5: Implementation and Continuous Improvement

- Module 13: Implementing Security Enhancements
- Prioritizing and phasing improvements
- Overcoming organizational and technical challenges
- Module 14: Monitoring and Continuous Improvement
- Auditing and updating security plans
- Leveraging lessons learned and benchmarking
- Module 15: Final Workshop – Action Planning
- Developing participant-specific improvement plans
- Sharing insights and next steps
- Wrap-up and certification

Certification

Participants will receive a Certificate of Completion in Oil and Gas Pipelines – Security Systems and Planning, validating their expertise in protecting critical infrastructure.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

<p>In-House / Customized Training</p> <p>Interested in running this course for your team?</p> <p>Please contact us:</p>	<p>TEL:</p> <p>+601116373203</p>	<p>EMAIL:</p> <p>info@mawaevents.net</p>
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