

PROJECT ENGINEERING AND MANAGEMENT FOR PIPELINES CONSTRUCTION, INSTALLATION AND OPERATIONS (ONSHORE AND OFFSHORE)

"Master the principles of project engineering and management to ensure efficient construction, installation, and operation of pipelines in both onshore and offshore environments."

Schedule

Date	Venue	Fees (Face-to-Face)
08 - 12 Jun 2026	London, UK	USD 3495 per delegate

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

Introduction

Pipeline projects, whether onshore or offshore, present unique challenges that require expertise in both engineering and project management. This comprehensive course will equip participants with the necessary skills to effectively manage the construction, installation, and ongoing operations of pipeline systems in a variety of environments. The course will cover the entire project lifecycle, from planning and design through to commissioning and maintenance, emphasizing the complexities of onshore and offshore operations.

Participants will engage in practical, real-world case studies and workshops to develop the skills needed to tackle the complexities of pipeline engineering and management, ensuring they can oversee projects effectively, minimize risks, and ensure safety and compliance.

Objectives

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

- Understand the key phases of pipeline project engineering, from design to operation
- Apply project management principles to pipeline construction, installation, and operations
- Identify and mitigate the unique risks associated with onshore and offshore pipeline projects
- Ensure compliance with industry standards and regulations
- Manage resources, schedules, and budgets to optimize pipeline project outcomes

Why Attend

- Gain an in-depth understanding of the pipeline project lifecycle
- Learn how to handle the technical and logistical challenges of both onshore and offshore pipeline operations
- Develop skills to manage project timelines, budgets, and safety protocols
- Learn from industry experts and network with peers
- Enhance your ability to manage large-scale pipeline projects efficiently and effectively

Target Audience

This program is designed for:

- Project engineers and managers involved in pipeline construction, installation, and operation
- Professionals working in pipeline design, construction, and maintenance for both onshore and offshore projects
- Site supervisors and construction managers involved in pipeline installations
- Operational managers overseeing pipeline system functionality
- Consultants and contractors engaged in pipeline projects

Individual Benefits

Key competencies that will be developed include:

- Advanced knowledge of project engineering principles for pipelines
- Strong understanding of managing onshore and offshore pipeline projects
- Ability to address challenges in scheduling, budgeting, and resource allocation
- Familiarity with regulatory and safety compliance specific to pipeline operations
- Enhanced problem-solving skills for pipeline project management

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Increased project efficiency and reduced delays in pipeline construction
- Improved risk management strategies for onshore and offshore pipeline projects
- Better compliance with regulatory standards and industry best practices
- Enhanced ability to manage large, multidisciplinary teams involved in pipeline projects
- Optimized resource allocation and budget management in pipeline engineering

Instructional Methodology

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

- Strategy Briefings - Overview of the project engineering principles applied to pipeline construction, installation, and operations
- Case Studies - Real-life examples of successful and challenging pipeline projects in onshore and offshore environments
- Workshops - Hands-on sessions focused on project planning, risk assessment, and the management of complex pipeline operations
- Peer Exchange - Group discussions on common challenges and solutions in pipeline engineering and management
- Tools - Tools for project management, resource allocation, and risk mitigation

MAWA EVENTS

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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: Introduction to Pipeline Project Engineering and Management

- Module 1: Overview of Pipeline Project Lifecycle – 07:30-09:30
- Key stages of the pipeline project lifecycle: Planning, Design, Construction, Operation
- Challenges in pipeline engineering for onshore and offshore environments
- Overview of engineering principles and project management strategies for pipelines
- Module 2: Project Planning for Pipeline Construction – 09:45-11:15
- Developing comprehensive project plans for pipeline construction
- Setting project goals, timelines, and deliverables
- Risk management strategies in pipeline projects
- Module 3: Resource Management for Pipeline Projects – 11:30-01:00
- Efficient allocation of resources (labor, materials, equipment) in pipeline projects
- Managing logistics and coordinating multiple teams in onshore and offshore projects
- Budgeting and cost management in pipeline project engineering
- Module 4: Workshop – Project Planning Exercise – 02:00-03:30
- Hands-on session to create a detailed project plan for an onshore pipeline construction

Day 2: Risk Management and Compliance in Pipeline Projects

- Module 1: Risk Identification and Mitigation – 07:30-09:30
- Common risks in pipeline construction, installation, and operations
- Techniques for identifying and mitigating project risks
- Managing environmental and regulatory compliance in pipeline projects
- Module 2: Health, Safety, and Environmental Considerations – 09:45-11:15
- Ensuring safety and minimizing environmental impact in pipeline operations
- Regulatory requirements for safety and environmental compliance
- Preparing for and responding to emergencies in pipeline projects
- Module 3: Compliance and Quality Control in Pipeline Projects – 11:30-01:00
- Meeting industry standards and regulatory requirements for pipeline projects
- Quality control measures throughout the project lifecycle
- Documenting and reporting compliance
- Module 4: Workshop – Risk Management Exercise – 02:00-03:30
- Hands-on session to develop a risk management plan for an offshore pipeline project

Day 3: Onshore and Offshore Pipeline Engineering Challenges

- Module 1: Engineering Challenges in Onshore Pipeline Projects – 07:30-09:30
- Design and construction considerations for onshore pipelines
- Handling environmental challenges in onshore pipeline installation
- Managing logistics and materials on land
- Module 2: Engineering Challenges in Offshore Pipeline Projects – 09:45-11:15
- Special considerations for offshore pipeline engineering
- Overcoming the challenges of subsea pipeline installation
- Ensuring stability and integrity in offshore pipelines
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Module 3: Communication and Coordination in Large Pipeline Projects – 11:30–01:00

- Managing communications between teams and stakeholders in large pipeline projects
- Coordination strategies for remote or dispersed project teams
- Tools for improving project collaboration and decision-making
- Module 4: Workshop – Engineering Solutions Exercise – 02:00–03:30
- Hands-on session on developing solutions to engineering challenges in pipeline projects

Day 4: Project Execution and Monitoring

- Module 1: Monitoring Pipeline Construction Progress – 07:30–09:30
- Tracking progress and ensuring milestones are met
- Tools for monitoring pipeline construction in real-time
- Managing delays and unforeseen issues during construction
- Module 2: Managing Operations and Maintenance of Pipelines – 09:45–11:15
- Effective management of pipeline operations post-construction
- Maintenance strategies for ensuring pipeline longevity and performance
- Handling upgrades, repairs, and routine inspections
- Module 3: Advanced Project Management Techniques – 11:30–01:00
- Implementing advanced project management techniques for complex pipeline projects
- Agile and lean methodologies in pipeline engineering
- Using project management software for pipeline project oversight
- Module 4: Workshop – Project Monitoring and Adjustment Exercise – 02:00–03:30
- Hands-on session to create a project monitoring and adjustment plan for a pipeline project

Day 5: Review and Certification

- Module 1: Course Review and Final Assessment – 07:30–09:30
- Recap of key concepts from the course
- Participant-led discussions on project engineering and management strategies
- Module 2: Certification Ceremony and Closing Remarks – 09:45–11:15
- Presentation of course completion certificates
- Final remarks from instructors
- Module 3: Networking and Next Steps – 11:30–01:00
- Networking session with peers and instructors
- Discussing future learning opportunities and professional development

Certification

Participants will receive a Certificate of Completion in Project Engineering and Management for Pipelines, validating their expertise in managing the construction, installation, and operation of pipeline systems, both onshore and offshore.

Why Choose MAWA Events

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