

## PIPELINES CONSTRUCTION, INSTALLATION & OPERATIONS (ONSHORE & OFFSHORE)

*"Build, Install, and Operate Pipelines with Confidence — From Ground to Sea"*

### 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 intensive training provides a comprehensive understanding of the entire pipeline lifecycle — from design and material selection through construction, installation, commissioning, and operations. Covering both onshore and offshore contexts, this course equips engineers and technical professionals with practical knowledge to deliver safe, compliant, and efficient pipeline systems while managing associated risks and logistics.

### Objectives

By the end of this course, participants will:

- Understand construction methods for onshore and offshore pipelines
- Learn key engineering, environmental, and logistical considerations
- Explore welding, trenching, stringing, and laying techniques
- Manage operational aspects such as pigging, inspection, and maintenance
- Navigate HSE, regulatory, and quality control requirements throughout the pipeline life cycle

## Why Attend

- Gain a complete project lifecycle view of pipeline development
- Understand the challenges unique to subsea and remote area pipeline works
- Enhance collaboration between project, field, and operations teams
- Improve delivery timelines and reduce operational failures

## Target Audience

- Pipeline engineers and project managers
- Construction and field operation supervisors
- QA/QC, inspection, and HSE professionals
- Maintenance and asset integrity teams
- Procurement and logistics coordinators in pipeline projects

## Individual Benefits

- Gain practical knowledge to apply directly on-site
- Improve career opportunities with specialized skills in both onshore and offshore pipeline projects
- Learn from actual field cases, avoiding costly mistakes
- Earn a professional certificate for career advancement

## Organizational Benefits

- Improve project delivery and reduce rework through better planning
- Increase asset longevity and reduce downtime
- Strengthen HSE compliance and reduce environmental impact
- Enhance team synergy across design, construction, and operations

## Instructional Methodology

- Interactive instructor-led presentations
- Real-world case studies and best practice walkthroughs
- Group problem-solving and pipeline layout exercises
- Visual simulations and video walkthroughs of on-site installations
- Daily recap quizzes and group discussions

## Course Outline

DETAILED 5-DAY COURSE OUTLINE (Customizable) Training Hours: 07:30 AM – 03:30 PM Daily Format: 3–4 Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

### Day 1 - Pipeline System Overview & Design Considerations

- Module 1 (07:30 – 09:30): Pipeline Engineering Fundamentals and Lifecycle
- Module 2 (09:45 – 11:15): Design Parameters: Material Selection, Route, and Environmental Factors
- Module 3 (11:30 – 01:00): Codes & Standards (API, ASME, DNV, ISO) for Onshore and Offshore Pipelines

### Day 2 - Onshore Pipeline Construction

- Module 4 (07:30 – 09:30): Construction Planning, Right of Way, and Trenching Techniques
- Module 5 (09:45 – 11:15): Welding, Stringing, Bending, and Tie-In Activities
- Module 6 (11:30 – 01:00): Hydrotesting, Commissioning, and Pre-Startup Inspection

### Day 3 - Offshore Pipeline Installation Techniques

- Module 7 (07:30 – 09:30): Offshore Pipeline Design and Environmental Challenges
- Module 8 (09:45 – 11:15): S-Lay, J-Lay, and Reel-Lay Methods – Comparative Analysis
- Module 9 (11:30 – 01:00): Anchor Handling, Buoyancy Control, and Seabed Preparation

### Day 4 - Operational Management and Inspection

- Module 10 (07:30 – 09:30): Pigging Operations, Leak Detection, and Flow Assurance
- Module 11 (09:45 – 11:15): Inline Inspection (ILI), NDT, and Corrosion Monitoring
- Module 12 (11:30 – 01:00): Emergency Shutdown Procedures and Maintenance Programs

### Day 5 - Safety, Risk, and Case Studies

- Module 13 (07:30 – 09:30): Risk Assessment, HAZID/HAZOP, and Environmental Controls
- Module 14 (09:45 – 11:15): QA/QC and Documentation in Pipeline Projects
- Module 15 (11:30 – 01:00): Real-Life Project Case Studies – Lessons Learned and Best Practices

## Certification

Participants will receive a Certificate of Completion for Pipelines Construction, Installation & Operations (Onshore & Offshore), demonstrating comprehensive knowledge of the pipeline lifecycle and field application capabilities.

## 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.

### In-House / Customized Training

Interested in running this course for your team?

Please contact us:

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