

Course Overview:

This advanced course is tailored for seasoned professionals in maintenance and engineering roles who manage or oversee flanged connections in industrial settings. It addresses complex challenges in flange installation, inspection, and maintenance while emphasizing strict adherence to safety and quality standards. Participants will gain in-depth expertise to ensure operational efficiency and compliance in high-pressure environments.

Course Objective:

- Master advanced flange installation techniques including torqueing and sealing.
- Implement effective maintenance and inspection strategies for flanged systems.
- Enforce rigorous quality control and regulatory compliance procedures.
- Apply safety protocols to mitigate risks in flange-related operations.
- Manage flange-related projects from planning to quality assurance.

Course Outline:

1. Fundamentals of Flange Management
 - Overview of flange systems
 - Types and applications of flanges
 - Standards and regulations in flange management
2. Advanced Installation Techniques
 - Proper alignment and assembly of flanges
 - Torqueing and tensioning methods
 - Sealing and gasket selection
3. Maintenance and Inspection of Flanges
 - Routine and preventive maintenance strategies
 - Advanced inspection methods
 - Identification of common issues and wear
4. Safety Protocols in Flange Operations
 - Risk assessment and safety measures
 - Handling high-pressure systems
 - Emergency response procedures
5. Quality Control and Compliance
 - Ensuring quality standards
 - Compliance with industry regulations
 - Documentation and reporting procedures
6. Technological Advances in Flange Management
 - Innovations in flange technology
 - Use of digital tools and software
 - Emerging trends in flange engineering
7. Project Management for Flange-Related Operations
 - Effective planning and resource allocation
 - Project execution and supervision
 - Quality assurance in project management
8. Case Studies and Practical Scenarios
 - Real-world examples of flange management

Training Language:

EN

Training Methodology:

The course combines various teaching methods, including instructor-led presentations, group discussions, case study analyses, and assessments through quizzes and a final exam to engage participants and ensure they understand and retain the material.

Venue | Date | Fees

Jubail | 02-11-2025 | 17,250 SAR

- Challenges and solutions in flange operations
- Lessons learned and best practices

Who Should Attend:

- Maintenance Engineers
- Mechanical Engineers
- Piping Engineers
- Quality Control Inspectors