



Maintenance and Inspection of Oil & Gas Tanks

30 Mar - 20 Apr 2025
Amman (Jordan)



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Introduction:

The maintenance and inspection of oil and gas tanks are critical components of the oil and gas industry's operations. These activities ensure storage facilities' safety, efficiency, and longevity, playing a pivotal role in the overall maintenance of oil and gas plants. The oil and gas sector relies heavily on robust maintenance protocols and meticulous inspection processes to prevent operational disruptions, minimize environmental risks, and uphold regulatory compliance.

Effective oil and gas industry maintenance encompasses various strategies and practices that maintenance engineers, managers, and supervisors implement to keep equipment functioning optimally. Oil and gas storage tanks are vital assets within any oil and gas facility. These tanks require regular inspection to detect and address potential issues before they escalate into significant problems.

Oil and gas tank inspections comprehensively assess structural integrity, coating conditions, and corrosion or leaks. Oil and gas facility maintenance involves addressing immediate repair needs and implementing preventative measures to enhance the reliability and performance of these critical structures.

Targeted Groups:

- Maintenance Engineers in Oil and Gas.
- Maintenance Managers in Oil and Gas.
- Maintenance Supervisors in Oil and Gas.
- Oil and Gas Plant Inspectors.
- Oil and Gas Facility Maintenance Teams.
- Oil and Gas Equipment Maintenance Specialists.
- Health and Safety Officers in Oil and Gas.
- Asset Integrity Engineers.
- Operations Managers in Oil and Gas Facilities.
- Reliability Engineers in the Oil and Gas Industry.

Course Objectives:

At the end of this oil and gas tank maintenance and inspection course, the participants will be able to:

- Understand the importance of oil and gas plant inspection.
- Master techniques for oil and gas facility maintenance.
- Learn best practices in oil and gas equipment maintenance.
- Develop skills as a maintenance engineer in oil and gas.
- Gain knowledge about oil and gas maintenance protocols.
- Explore various types of maintenance in the oil and gas industry.
- Enhance abilities as a maintenance manager in oil and gas.
- Improve competencies as a maintenance supervisor in oil and gas.
- Conduct effective oil and gas inspections.
- Learn about inspection practices in the oil and gas industry.
- Perform detailed inspections of oil and gas tanks.
- Ensure the integrity of gas and oil tanks.
- Maintain the functionality of oil and gas storage tanks.
- Understand the requirements for storage tanks in the oil and gas industry.

Targeted Competencies:

By the end of this oil and gas tank maintenance and inspection training, the participant's competencies will:

- Proficiency in oil and gas plant inspection.
- Expertise in oil and gas facility maintenance.
- Skills in oil and gas equipment maintenance.
- Know maintenance in the oil and gas industry.
- Understand various types of maintenance in the oil and gas industry.
- Capability in managing oil and gas maintenance.
- Competence in supervising maintenance operations in the oil and gas industry.
- Ability to conduct thorough oil and gas inspections.
- Familiarity with inspection practices in the oil and gas industry.
- Technical know-how in the inspection of oil and gas tanks.
- Expertise in maintaining and inspecting gas and oil tanks.
- Proficiency in managing oil and gas storage tanks.
- Know the requirements for storage tanks in the oil and gas industry.

Understanding Oil & Gas Tank Maintenance and Inspection:

Understanding the different types of maintenance in the oil and gas industry is essential for professionals overseeing these operations. From routine maintenance tasks to specialized inspections, each approach serves a unique purpose in maintaining the health of oil and gas equipment. Maintenance managers in the oil and gas sector must develop and execute detailed maintenance plans that account for the specific demands of oil and gas storage tanks.

These plans should include scheduled inspections, timely repairs, and upgrades to ensure the storage tanks' safety and efficiency. In this course on the maintenance and inspection of oil and gas tanks, we will explore the best practices and methodologies for maintaining these essential components of oil and gas infrastructure.

Participants will gain a thorough understanding of the maintenance engineer's role in the oil and gas industry, the importance of regular inspections, and the strategies to manage maintenance operations effectively. Attendees will have the knowledge and skills to maintain the integrity and functionality of oil and gas storage tanks, ensuring the continued success and safety of oil and gas facilities.

Course Content:

Unit 1: Introduction to Oil and Gas Tanks:

- Overview of gas and oil tanks used in the industry.
- Types of oil and gas tanks: fixed-roof, floating-roof, and pressure tanks.
- Key functions of storage tanks in oil and gas operations.
- Design and construction standards for oil and gas tanks.
- Oil and gas tanks are used in different stages of production and storage.
- Common materials used in tank construction.

Unit 2: Fundamentals of Oil and Gas Plant Inspection:

- Introduction to the concept of oil and gas plant inspection.
- Objectives and importance of regular plant inspections.
- Key components and systems are subject to inspection.
- Overview of inspection methods: visual, ultrasonic, and radiographic.
- Tools and equipment used in plant inspections.
- Common inspection standards and regulations.

Unit 3: Oil and Gas Facility Maintenance Overview:

- Definition and scope of oil and gas facility maintenance.
- Objectives of maintenance: safety, reliability, and efficiency.
- Types of maintenance strategies: reactive, preventive, predictive.
- Impact of facility maintenance on overall plant performance.
- Maintenance planning and scheduling techniques.
- Role of maintenance in reducing operational downtime.

Unit 4: Types of Maintenance in the Oil and Gas Industry:

- Breakdown Maintenance: definition and application.
- Preventive maintenance: planning and execution.
- Predictive maintenance: techniques and technologies used.
- Corrective maintenance: addressing equipment failures.
- Comparison of different maintenance types and their advantages.
- Implementing a maintenance strategy suited to specific operational needs.

Unit 5: Role of Maintenance Engineers in Oil and Gas:

- Key responsibilities of maintenance engineers in the oil and gas sector.
- Technical skills and qualifications required for maintenance engineers.
- Daily tasks: inspections, repairs, and maintenance planning.
- Challenges faced in the maintenance of oil and gas equipment.
- Interaction with operations, safety, and engineering teams.
- Role in ensuring compliance with industry standards and regulations.

Unit 6: Oil and Gas Equipment Maintenance Practices:

- Routine maintenance tasks for oil and gas equipment.
- Best practices for equipment inspection and testing.
- Common issues and faults encountered in oil and gas equipment.
- Troubleshooting techniques and problem resolution.
- Documentation of maintenance activities and outcomes.
- Importance of keeping detailed maintenance records.

Unit 7: Maintenance Manager Responsibilities in Oil and Gas:

- Overview of duties and responsibilities of maintenance managers.
- Strategic planning and coordination of maintenance operations.
- Budgeting and resource allocation for maintenance activities.
- Managing and supervising maintenance teams.
- Ensuring adherence to safety and regulatory standards.
- Performance evaluation and continuous improvement of maintenance practices.

Unit 8: Role of Maintenance Supervisors in Oil and Gas:

- Functions and responsibilities of maintenance supervisors.
- Supervisory skills: leadership, communication, and delegation.
- Managing daily maintenance operations and staff.
- Ensuring compliance with maintenance procedures and standards.
- Handling emergencies and urgent repairs.
- Training and mentoring maintenance personnel.

Unit 9: Effective Oil and Gas Inspection Techniques:

- Detailed inspection procedures for oil and gas tanks.
- Tools and technologies used for tank inspections.
- Methods for assessing tank integrity and condition.
- Identifying signs of wear, corrosion, and leakage.
- Techniques for non-destructive testing and evaluation.
- Reporting and documenting inspection results accurately.

Unit 10: Managing Oil and Gas Storage Tanks:

- Principles and practices for effective tank management.
- Routine maintenance and inspection schedules for storage tanks.
- Safety protocols for handling and operating storage tanks.
- Monitoring and managing tank contents and conditions.
- Procedures for addressing and resolving tank-related issues.
- Regulatory requirements and compliance for storage tanks.

Unit 11: Inspection of Oil and Gas Tanks:

- Specific inspection techniques for oil and gas tanks.
- Assessing structural integrity, coating, and internal conditions.
- Identifying common problems such as corrosion, leaks, and damage.
- Methods for performing visual, ultrasonic, and other inspections.
- Ensuring inspections meet industry standards and safety regulations.
- Documentation and follow-up actions based on inspection findings.

Unit 12: Preventive Maintenance for Oil and Gas Tanks:

- Strategies for implementing preventive maintenance programs.
- Scheduling and performing routine maintenance tasks.
- Benefits of preventive maintenance for extending tank lifespan.
- Case studies of successful preventive maintenance implementations.
- Tools and techniques for monitoring tank condition and performance.
- Developing and maintaining a preventive maintenance checklist.

Unit 13: Troubleshooting and Repair of Oil and Gas Tanks:

- Common issues and malfunctions in oil and gas tanks.
- Diagnostic techniques for identifying tank problems.
- Repair methods and best practices for addressing issues.
- Tools and equipment used for tank repairs.
- Ensuring repairs are effective and meet safety standards.
- Post-repair inspections and follow-up procedures.

Unit 14: Compliance and Safety in Maintenance and Inspection:

- Overview of regulatory requirements for maintenance and inspection.
- Safety standards and protocols for oil and gas tanks.
- Importance of compliance with industry regulations.
- Documentation and record-keeping for maintenance and inspection activities.
- Training and certification requirements for maintenance personnel.
- Strategies for maintaining a safety culture in maintenance and inspection operations.



**Registration form on the :
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