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DESIGN AND MAINTENANCE OF STATIONARY EQUIPMENT IN O&G

Start Date:	30/11/2026	**End Date:**	04/12/2026
Categories:	Engineering & Maintenan	**Venues:**	Barcelona
Formats:	In Person	**Instructors:**	

OVERVIEW

This course provides knowledge on the design principles and maintenance practices of stationary equipment commonly used in oil & gas facilities, including pressure vessels, heat exchangers, and columns.

OBJECTIVES

By the end of this course, participants will be able to: • Understand the design standards for pressure vessels and exchangers. • Identify degradation mechanisms affecting static equipment. • Plan and execute inspections and preventive maintenance tasks. • Apply repair techniques and assess fitness-for-service. • Improve the reliability and safety of stationary equipment assets.

COURSE OUTLINE

1. Types and Functions of Stationary Equipment 2. Design Codes and Standards (ASME, API) 3. Inspection Techniques and Failure Mechanisms 4. Maintenance Planning and Repairs 5. Case Studies and Best Practices

TARGET AUDIENCE

Mechanical engineers, maintenance personnel, inspection teams, and reliability engineers working with static equipment.

METHODOLOGY

Code-based design reviews, FFS assessments, inspection reports, and maintenance planning sessions.

CONCLUSION

Participants will be equipped to manage the integrity and performance of stationary equipment using both design and maintenance best practices.

DAILY AGENDA

Day 1: Stationary Equipment Overview

Introduction to pressure vessels, columns, drums, and exchangers.

Day 2: Design Requirements and Codes

Understanding ASME Section VIII, API 660, and design specifications.

Day 3: Common Failures and Inspection

Corrosion, fatigue, fouling – inspection methods and NDT applications.

Day 4: Maintenance & Repairs

Planning PM tasks, repair techniques, welding, and lining.

Day 5: Performance Optimization

Fitness-for-service, reliability improvement and case analysis.

For more information, please contact us:
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