Email: info@gatewayconsulting.com | Phone: +96522968641
https://gatewayconsulting.com

FIXED EQUIPMENT INTEGRITY AND FITNESS-FOR-SERVICE

Start Date:	01/03/2027	**End Date:**	05/03/2027
Categories:	Engineering & Maintenan	**Venues:**	Barcelona
Formats:	In Person	**Instructors:**	

OVERVIEW

This course provides practical knowledge on assessing the integrity and serviceability of fixed equipment in oil & gas, focusing on degradation mechanisms, inspection practices, and fitness-for-service evaluations per API 579.

OBJECTIVES

By the end of this course, participants will be able to: • Identify common degradation mechanisms in fixed equipment. • Conduct inspection planning and apply NDT methods effectively. • Perform fitness-for-service assessments per API 579. • Evaluate repair or replacement decisions based on asset condition. • Enhance operational safety and minimize equipment failure risks.

COURSE OUTLINE

1. Degradation Mechanisms and Risk Factors 2. Inspection Planning, NDT Techniques and Intervals 3. Fitness-for-Service Framework (API 579) 4. Case-Based FFS Level 1 & Level 2 Assessments 5. Repair, Replacement, and Life Extension Strategies

TARGET AUDIENCE

Inspection engineers, plant integrity teams, reliability professionals, and maintenance managers involved in fixed equipment evaluations.

METHODOLOGY

API-based analysis, case exercises, inspection walkdowns, and evaluation templates.

CONCLUSION

Participants will return equipped with technical strategies for evaluating and managing the fitness-for-service of fixed assets in complex operating environments.

DAILY AGENDA

Day 1: Fixed Equipment Integrity Overview

Types of degradation, corrosion loops, and integrity principles.

Day 2: NDT and Inspection Strategies

Planning and executing visual, UT, PT, and RT inspections.

Day 3: Fitness-for-Service (API 579)

FFS levels, component assessment methods, and API workflow.

Day 4: Case Study Applications

Practical FFS examples and run-repair-replace decision making.

Day 5: Life Extension & Repair Planning

Documentation, repair criteria, and post-repair evaluations.

For more information, please contact us:
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