

Rotating Equipment Optimization & Reliability Improvement

Oil & Gas Engineering
Barcelona (Spain)
20 - 24 Oct 2025

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The background of the entire page features a grayscale checkered chessboard. In the foreground, several chess pieces are visible: a silver pawn on the left, a silver pawn in the center, and a large gold king piece on the right. Faint, concentric circles emanate from behind the king piece, creating a ripple effect across the background.

Rotating Equipment Optimization & Reliability Improvement

Ref: 3271_132261 **Date:** 20 - 24 Oct 2025 **Location:** Barcelona (Spain) **Fees:** 4400 **Euro**

Course Description

This intensive 5-day course focuses on advanced techniques for optimizing rotating equipment performance and implementing continuous reliability improvement CRI strategies. Participants will gain in-depth knowledge of reliability concepts, failure analysis, and maintenance optimization methods to enhance equipment uptime and reduce operational costs.

Learning Objectives

- Apply proven methodologies for rotating equipment optimization
- Implement effective reliability improvement strategies
- Analyze failure modes and develop targeted maintenance plans
- Optimize maintenance decisions using condition monitoring techniques
- Develop a continuous reliability improvement process

Course Modules

Day 1: Fundamentals of Reliability and Equipment Performance

- Introduction to reliability concepts and metrics
- Understanding the strategic importance of reliability
- Assessing current equipment performance
- Making informed strategic maintenance choices

Day 2: Reliability Modeling and Analysis

- Basic reliability modeling techniques
- Deterministic and probabilistic models
- Markov chains and Monte Carlo simulations
- Case studies in reliability modeling

Day 3: Failure Analysis and Maintenance Strategies

- Understanding failure modes and patterns
- Weibull analysis for failure prediction
- Developing effective maintenance tasks
- Failure Modes and Effects Analysis FMEA

Day 4: Maintenance Optimization and Cost-Effectiveness

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- Risk assessment and equipment criticality
- Functional failure analysis
- Maintenance task selection and optimization
- Creating practical maintenance plans

Day 5: Continuous Reliability Improvement Implementation

- Establishing a CRI process
- Key Performance Indicators KPIs for reliability
- Root Cause Analysis RCA techniques
- Developing a reliability improvement action plan

Practical Wins for Participants

- Ability to reduce equipment downtime and maintenance costs
- Skills to implement data-driven maintenance strategies
- Techniques to optimize resource allocation for maintenance activities
- Methods to establish a culture of continuous reliability improvement

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