

# Rotating Equipment Optimization & Reliability Improvement

Oil & Gas Engineering  
Toronto (Canada)  
06 - 10 Oct 2025

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## Rotating Equipment Optimization & Reliability Improvement

**Ref:** 3271\_137749 **Date:** 06 - 10 Oct 2025 **Location:** Toronto (Canada) **Fees:** 4700 **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

A graphic of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a silver knight behind it. The board has a checkered pattern, and there are concentric circles in the background.

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