Global Horizon
TRAINING CENTER

Conference:
Continuous Reliability Improvement (CRI)

30 November - 4 December 2026
London (UK)

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Continuous Reliability Improvement (CRI)

Conference code: CO8066 From: 30 November - 4 December 2026 Venue: London (UK) - Conference Fees: 6300 Euro

Introduction

This conference provides a comprehensive understanding of reliability and maintenance strategies for rotating equipment, which are critical to plant performance and operational continuity. It focuses on combining predictive and preventive maintenance approaches with effective failure analysis to improve equipment reliability, reduce downtime, and optimize maintenance costs. Participants will gain practical knowledge of reliability engineering concepts, failure management, and continuous improvement techniques to enhance equipment performance and operational efficiency.

Objectives

This seminar is an in-depth treatment of the major factors that have to be considered in order to assess and improve the reliability of machinery. It has been designed to illustrate fundamental reliability concepts without having to resort to complex mathematics. Its purpose is to bridge the gap between the rather theoretical subject of "Reliability Engineering" and day-to-day equipment maintenance practice by emphasizing the common goals of reliability and maintenance.

At the end of this seminar participants will be able to:

- Apply the proven methodologies and templates which are introduced
- Focus on key areas of reliability
- Understand the nature of failure and how this affects the performance of rotating equipment
- Make the right maintenance choices for strategic equipment
- Reduce the impact of plant downtime
- Unlock the true potential of all of their people

Target Audience

- Maintenance and Reliability Engineers
- Mechanical and Rotating Equipment Engineers
- Plant and Operations Engineers
- Inspection and Asset Integrity Professionals
- Maintenance Supervisors and Managers
- Reliability and Asset Management Specialists
- Oil & Gas and Petrochemical Professionals
- Production and Process Engineers
- Technical Professionals responsible for equipment performance and downtime reduction
- Organizations seeking to improve reliability, maintenance effectiveness, and plant availability

Outlines

Day 1: Understanding the link between Reliability and competitive advantage

- Definition of Reliability
- Probability of failure
- Reliability metrics
- Strategic Importance of Reliability
- Assessing current performance
- Making the right strategic choices

Day 2: Using reliability modeling to establish inherent reliability

- Basic modeling building blocks
- Deterministic models
- Probabilistic models
- Markov chains
- Monte Carlo models
- Case study examples

Day 3: Understanding the nature of failures in order to make the best response

- Origins of failure
- Failure types
- Six common patterns
- Analyzing failure patterns
- Weibull analysis
- Maintenance tasks

Day 4: Optimising your failure management to ensure that maintenance is cost-effective

- Risk assessment & criticality
- Equipment functions
- Functional failures
- Failure modes and effects analysis
- Failure consequences
- Maintenance task selection
- Producing a practical maintenance plan

Day 5: Setting up a continuous reliability improvement process in order to improve performance

- Assessing the improvement potential versus the costs
- Obtaining senior management support
- Establishing the project framework
- Technical aspects
- Human considerations
- Likely results

Registration form on the Conference: Continuous Reliability Improvement (CRI)

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