



*Training Course:
Rotating Equipment Optimisation*

*28 April - 2 May 2024
Alexandria (Egypt)*

Training Course: Rotating Equipment Optimisation

Training Course code: EN6051 From: 28 April - 2 May 2024 Venue: Alexandria (Egypt) - Training Course Fees: 4750 € Euro

Introduction

Benchmarking studies on various oil refineries around the world by Solomon Associates have shown that rotating equipment accounts for more than 20% of all maintenance and inspection costs. In addition, rotating equipment is often at key nodes of the process and is frequently critical to production. Therefore failure would lead to unacceptable downtime costs.

This program aims to provide delegates with a comprehensive understanding of how to use a combined predictive and preventive maintenance approach coupled with proper failure monitoring to achieve maximum reliability and performance from rotating equipment.

Course Objectives of Rotating Equipment Optimisation

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

Course Outlines of Rotating Equipment Optimisation

Day One

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 Two

Using reliability modeling to establish inherent reliability

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

Day Three

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 Four

Optimizing 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 Five

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 Training Course: Rotating Equipment Optimisation

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