ASSET PERFORMANCE MANAGEMENT

METHODS INTRODUCTION TO RELIABILITY ENGINEERING

REL101 - 1 Day

This interactive, practical course addresses the integration of a range of reliability initiatives into an asset management strategy. You'll discover the tools necessary to develop, implement, and sustain best in class maintenance and reliability programs. You'll learn about the foundational elements your organization needs in order to reduce reactive maintenance, downtime, and maintenance costs with proven reliability methods.

Format

Duration: 8 hours **Schedule:** 1 day **Delivery:** Classroom

Who should attend

Those who are:

- New to reliability engineering
- Looking to get your team started and reliability programs ramped up
- Looking for a team to speak the same language for reliability improvement
- Experiencing recurring problems and/or lack of confidence in current solutions
- Consistently exceeding your maintenance budget
- Unsure of where your reliability program is currently positioned

Objectives

- Gain a solid understanding of the essential reliability and maintainability concepts and principles
- Learn which key methods and tools to employ to achieve reliability improvement across the asset lifecycle
- Know what the objectives are of reliability management and how does the reliability discipline interact with the rest of the organization

Program Outline

Day 1

- Reliability Concepts
- Breaking The Reactive Cycle
- Benefits of Reliability Based Maintenance
- Definition of Reliability Terms

Overview of key Reliability Engineering Tools:

- Root Cause Analysis (RCA)
- Reliability Centered Maintenance (RCM)
- Life Cycle Costing (LCC)
- Reliability Block Diagrams (RBD)
- Asset Criticality

Next Steps:

- FMECA101 - Failure Mode, Effects and Criticality Analysis
- RCM201 - Maintenance Strategy Development
- RBD101 - Improving Plant Availability using Reliability Block Diagrams

Languages

- English
- Spanish
- Chinese