**Reliability Centered Maintenance & FMEA 2-Day Workshop**

**Description**

The core learning objective over the 2-day workshop is to demonstrate and apply Failure Modes and Effects Analysis

(FMEA). Eruditio will facilitate hands-on, practical exercises for the following topics:

**Recommended Audience**

This course is recommended for Maintenance Supervisors, Maintenance and Reliability Engineers, Maintenance and

Engineering Managers.

**You Will Learn**

**Changing Maintenance Expectations from “Reactive” to “Proactive”**

* The changing expectations of Maintenance from the 1950’s to Present
* Financial impact of each maintenance era using the “Maintenance Challenge” model
* “Over the Edge” case study, benchmarks & opportunity analysis

**Applying the P-F Management Philosophy**

* Defining the “P-F Curve”
* Maintenance strategies relative to asset Availability and the P-F Curve
* Downtime impact of Predictive, Preventive and Corrective maintenance tasks
* P-F Curve relative to Maintenance Costs as a Percentage of RAV

**Applying Modern Approaches to Reliability Centered Maintenance**

* Modern application of RCM core principles
* “Classical” and “Variant” approaches to RCM analysis
* Using Failure Mode Mapping as a “Derivative” approach to RCM

**Describing the Relationship between Failure Probability and Risk Control Measures**

* Understanding failure probability (Beta) and failure patterns of modern assets
* ISO 31000 model for making risk-based decisions
* Failure probability exercise

**Practice FMEA**

* Writing Function and Functional Failure statements
* Defining Failure Modes and Effects
* Evaluating Failure Mode Risks

**RCM Decision Process**

* Selecting maintenance tasks relative to the P-F Management philosophy
* Level of risk (Severity, Probability or Detectability) that each type of task mitigates
* Setting task frequencies based on Failure Probability

**Equipment Maintenance Plan**

* Developing an Equipment Maintenance Plan (EMP)

**Spare Parts Decisions for RCM**

* Evaluating “ABC” classifications
* Management practices for each classification

**Evaluating Preventive Maintenance Effectiveness**

* Demonstrate how to use a “PM Evaluation Checklist” to classify maintenance tasks
* Perform a sample Preventive Maintenance Effectiveness evaluation
* Define the impact Preventive Maintenance Optimization on labor utilization & “Backlog”

Do you have any additional questions? Don’t hesitate to contact us at eruditio.com