



Class Location: 40 Patriots Point Rd  
Mt Pleasant SC 29464

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# RELIABILITY CENTERED MAINTENANCE

## And 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



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- 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”

#### **CLASS DURATION and DATES**

October 25-26, 2017 8:30 AM to 4:30 PM

**COST:** \$1,499 per student with coaching packages for a supported implementation are available for an additional cost

**REGISTER AT:** <http://info.eruditiollc.com/rcm-at-the-institute-2017>