

From Second Class to World Class

This practical, 2-day course explains how to build maintenance strategies that improve reliability while simultaneously reducing costs. Participants learn how criticality analysis, Reliability Centered Maintenance (RCM), Failure Modes and Effects Analysis (FMEA), and PM/PdM optimization techniques are used to design the appropriate mix of predictive and preventive tasks for each plant asset.

While the course is particularly relevant for those who are just defining their maintenance program, it is equally valuable for those that need to further refine and improve the PM and PdM tasks in an existing program. It does this by addressing common problem areas such as poorly defined tasks; tasks mismatched to the criticality, operating context, or failure modes of the equipment; PM tasks that do not take into account relevant PdM and Condition Monitoring (CM) technologies; and, unnecessary PM tasks performed in parallel with PdM and CM activities in ways that are redundant, inefficient, and may even degrade equipment reliability.

Benefits

- Provides a systematic, measurable approach to maintenance
- Makes better use of resources
- Improves maintenance effectiveness
- Optimizes PM and PdM tasks for better results
- Helps reduce maintenance costs
- Helps shift activities from reactive to proactive



Comprehensive Reliability Training Offerings

In addition to the Introduction to Designing Reliability Based Maintenance Strategies course, GE also provides numerous other workshops and training courses specifically designed to address the reliability function. These courses cover topics such as hands-on application of RCM techniques and tools, maintenance planning and scheduling, financial analysis and justification tools for reliability projects, understanding the reliability process, and more. Combined, they represent an ideal foundation upon which you can build your organization's reliability program.

Flexible Venues

Our reliability courses are offered at numerous GE Training Center locations worldwide. Upon request, we can also come directly to your facility or an appropriate local venue to provide any of the courses in our portfolio of reliability curricula.



Detailed Syllabus

- 1) Maintenance Strategy Models
 - a. Maintenance Strategies
 - b. Reactive Maintenance Strategy vs. Proactive Maintenance Strategy
 - c. The Benefits of a Proactive Maintenance Strategy and the Role of PM/PdM
- 2) Basic RCM Techniques
 - a. Objective of a Maintenance Program that uses PM/PdM Tasks
 - b. Use of Reliability Centered Maintenance (function/functional failure/failure mode/failure effects)
 - c. Failure Consequence Categories
- 3) Task Selection
 - a. Nature of Equipment Failures
 - b. Types of PM and PdM Tasks
- 4) Basic PM/PdM Tools
 - a. PdM Technologies
 - b. Use of Criticality Ranking as an Aid in PM/PdM Task Development
 - c. PM/PdM Optimization Requirements
- 5) Program Design
 - a. Basic RCM/FMEA Analysis Process
 - b. Use of RCM/FMEA in PM/PdM Task Development
- 6) Task Development Principles
 - a. Use of Quantifiable Information in Task Development
 - b. Quantifiable Data vs. Non-Quantifiable Data
- 7) Task Scheduling Techniques
 - a. Task Scheduling Requirements
 - b. Phase Task and Time Interval Adjustments
 - c. Task Shadowing
 - d. Task Load Balancing

- 8) Program Monitoring
 - a. Use of Performance Measures to Evaluate the Health of a PM/PdM Program
 - b. Evaluation of Performance Measures Used to Monitor Asset Health
- 9) Basic Principles of a Holistic Approach to Plant Maintenance
 - a. What is "holistic" plant maintenance?
 - b. Major Features

Workshop Details

Duration: two days

Prerequisites: none

Presenters: This course is presented by Management Resources Group (MRG), Inc., as part of a strategic business relationship between GE Energy and MRG to deliver comprehensive reliability services including consulting, implementation, and training. The course features MRG training materials and facilitators.

For Additional Information

Please visit our reliability services website at the URL listed below. It contains links to our reliability-related training and allows you to access the most up-to-date information on course schedules, registration information, and more. You can also contact us at the phone number listed below, which is dedicated specifically to inquiries on our reliability services and training offerings.



Web: www.ge-energy.com/rcis
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