



Class Location: USS Yorktown, 40 Patriots Point Rd
Mt Pleasant SC 29464

Society of Maintenance and Reliability Professionals (SMRP) Body of Knowledge (BOK)

DESCRIPTION

The overall objective of this course is to build awareness and alignment to the SMRP BOK. The course is designed to provide a look at each of the 5 pillars and the core concepts within each. The class will include knowledge checks in the form of quick quizzes to verify understanding and retention examples of how the attendee might apply the learning in their facility creating value for the company.

We recommend the following resources to be read prior to the class:

- Centered on Excellence (Darrin Wikoff)
- Making Common Sense Common Practice, 4th Edition: Models for Operational Excellence (Ron Moore)
- Maintenance and Reliability Best Practices, 2nd Edition: Ramesh Gulati)
- Reliability Centered Maintenance (John Moubray)

RECOMMENDED AUDIENCE

This course is recommended for Maintenance Supervisors, Maintenance and Reliability Engineers, Maintenance and Engineering Managers.

YOU WILL LEARN:

Apply Business and Management (Pillar 1) to your reliability improvement goals:

- Create and manage a strategic mission for reliability improvement
- Select, collect and analyze key performance indicators (KPI) including examples from the SMRP Metrics Compendium.
- Understand metric interaction and how to identify metric exaggeration and inaccuracies
- Evaluate change management, risk management, and communication requirements.

Define how reliability plans and task improve manufacturing process reliability (Pillar 2):

- Understand process flow, parameters and quality specifications
- Use process improvement techniques—e.g. loss elimination and continuous improvement programs
- Set up and maintain a management of change process

Develop equipment reliability (Pillar 3) best practices:

- Create agreement on equipment reliability expectations and goals
- Implement equipment criticality processes



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- Evaluate equipment reliability using Reliability, Availability and Maintainability
- Strategically establish a plan to ensure equipment reliability for new and existing assets
- Cost justify plans for implementation
- Implement reliability plans and periodically review performance for adjustments in focus

Describe how organization and leadership (Pillar 4) support maintenance and reliability goals and targets:

- Determining organizational competency and staffing requirements
- Analyzing organizational capability and developing personnel
- Organizational structure, roles and responsibilities for reliability
- Leading and managing people

Identify work management (Pillar 5) best practices:

- How to identify, validate and approve maintenance and reliability work
- Understand maintenance and reliability work priority, planning and scheduling
- Execute and document work in the work process
- Analyzing and measuring work completion
- Planning and executing projects
- Using information technologies effectively managing resources and materials effectively

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