

# **Society of Maintenance and Reliability Professionals (SMRP)**

## **Body of Knowledge Course**

### **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 SMRP Pillars and the core concepts within each one. The class will include knowledge checks in the form of quizzes and activities to verify the core concepts are understood and retained. Application of the material will be a focus to ensure that what is learned in the classroom can be applied when the student returns to their facility.

We recommend reading the following resources prior to arrival for the first day of class:

- Making Common Sense Common Practice, 4th Edition: Models of Operational Excellence (Ron Moore)
- Maintenance and Reliability Best Practices, 3rd Edition (Ramesh Gulati)
- Reliability Centered Maintenance (John Moubray)

### **RECOMMENDED AUDIENCE:**

This course is recommended for Maintenance Managers, Maintenance Supervisors, Planners, Schedulers, Engineers, and any other professional that is interested in learning more about the SMRP Pillars.

### **WHAT YOU WILL LEARN:**

#### **Pillar 1: Business and Management**

- Understanding how Pillar 1 can drive reliability improvement goals.
- Create and manage strategic mission for reliability improvement.
- Select, collect, and analyze key performance indicators (KPI) including SMRP Metrics Compendium.
- Understand the pitfalls of metrics and how to manage them appropriately.
- Evaluate change management, risk management, and communication requirements for organizational improvement.

#### **Pillar 2: Manufacturing Process Reliability**

- Understand how reliability plans can help improve manufacturing processes.
- Learn how to define process flow parameters and quality specifications.
- Use process improvement techniques such as loss elimination and continuous improvement.
- Set up and maintain the management of change (MOC) process.

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**Pillar 3: Equipment Reliability**

- Learn the industry standard equipment reliability best practices.
- Create an agreement regarding equipment reliability expectations and goals.
- Discover how to evaluate equipment reliability using metrics such as Reliability, Failure rate, Availability, Maintainability, Mean Time to Repair (MTTR), and Mean Time Between Failures (MTBF).
- Strategically establish a plan to ensure equipment performance is protected for new and existing assets, ensuring organizational capacity.
- Understand reliability plan implementation and periodic review of current processes for continuous improvement.
- Learn about the tools available to organizations to identify when asset performance drops.

**Pillar 4: Organization and Leadership**

- Understand how leadership impacts maintenance and reliability goals.
- Learn how to establish staffing requirements and organizational competencies.
- Analyze the capabilities of an organization and identify needs for personal development.
- Define how organizational structure can support the performance needs of a facility.
- Managing and leading people to support the goals established for the organization.

**Pillar 5: Work Management**

- Understand industry established work management best practices.
- Learn how to identify, approve, prioritize, plan, schedule, execute and close out maintenance work to ensure effective and efficient use of resources.
- How to measure work management efforts and make appropriate adjustments.
- Understand the value of proper planning for the organization, and the risk of not fully performing this function.
- Discover how using the appropriate tools will ensure that managing resources and materials can be done safely and effectively.

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**COST: \$2,100 per student**