

# MS 332 - Reliability Centered Maintenance (RCM)

## Recommended for

Maintenance, engineering and rotating equipment personnel. Maintenance supervisors and managers whom are interested in rotating equipment performance.

## Course objective

Upon completion of this course, participants will have the knowledge to:

- Describe an RCM process flow
- Understand the differences in RCM approach
- Recognize the importance of data structure and content
- Understand the importance of identifying and categorizing assets
- Understand criticality and the FMECA approach in RCM
- Understand the development of RCM analysis and its implications
- Understand the reason of conducting a task comparison
- Understand work packaging
- Understand the methods required for implementation of RCM
- Recognize the meaning of 'a living program'
- Understand the content of a RCM project plan
- Understand Risk Based Inspection (RBI)



## Course description

### *Module I: Introduction*

- ✓ Discuss RCM terminology

### *Module II: RCM overview and business context*

- ✓ Understand the evolution of RCM
- ✓ Understand the business context of RCM
- ✓ Know RCM standards

### *Module III: RCM phase "what is important?"*

- ✓ Know what a criticality matrix is
- ✓ How to select which system to analyze
- ✓ Determine system boundaries
- ✓ Understand what failure modes, failure causes and failure effects are

### *Module IV: RCM phase "what should be done?"*

- ✓ Know what important failure characteristics are
- ✓ Know when to decide RTF maintenance
- ✓ Know when design changes are required
- ✓ How to prescribe maintenance to critical assets

*Module V: RCM customization and requirements*

- ✓ Understand RCM customization
- ✓ Understand the use of RCM template data
- ✓ Determine what data is required for RCM
- ✓ Become aware of the asset management support tool (AMST)

*Module VI: Implementation and improvement*

- ✓ Understand what a job plan is
- ✓ Understand how to allocate tasks
- ✓ Understand how to implement RCM well
- ✓ Understand what feedback is

*Module VII: RCM project*

- ✓ Know the steps in a RCM project

*Module VIII: RCM project*

- ✓ Understand the evolution of RBI
- ✓ Understand variations of RBI
- ✓ Understand the requirements for RBI

## Course duration

3 days