Reliability Centered Maintenance (RCM) For FM Personnel

Introduction:

Reliability Centered Maintenance (RCM) is commonly used to help establish safe minimum levels of maintenance, determine changes to operating procedures and help establish maintenance regimes and plans. Successful implementation can result in cost savings, machine uptime and improved risk management. But the devil's in the detail, how can you achieve these benefits and successfully implement RCM in your organization? This course will help you do just that. This course provides an introduction to the principles of RCM. RCM is a proven systematic approach for defining maintenance tasks for engineering systems. It has been successfully applied in several industries most notably in the aviation, chemical, and petroleum, manufacturing and electric utility industries.

This course will enable the candidates to answer the following questions:

- What are the intended functions of the system?
- What functional failures can occur in the system?
- What component failures can result in functional failures?
- What component failure modes can results in component failures of interest?
- What maintenance tasks are effective at predicting or preventing key component failure modes?

Who Should Attend?

Facilities Managers, Maintenance Managers, Property Management Company Employees, Property Managers, Supervisors, General Services Managers, General Services Supervisors, General Services Foremen, General Services Personnel, Building Managers, Property Owners, LEED Designers, MEP Contractors and Consultants, Logistics Consultants, Logistics and Financial Managers, Accounting and Operations Managers, Third-Party Logistics Providers, Supply Chain and Logistics Managers and Professionals, Operations Managers, Security Professionals, Physical Asset Managers, Estate Managers, Fire Protection Buyers, Architects, Health and Safety Officers, Manufacturing Site, Plant Managers, Maintenance Managers, Planning Supervisors, Designers, Contractors, FM Managers and Staff, Procurement Managers and Staff, Contract Managers and Staff, Professionals who are responsible for the management, operation and maintenance of facilities (buildings, production facilities, utilities, power and water distributions networks landscaping, etc., Professionals aiming to update themselves on the elements, best practices and implementation aspects of facilities management, non-maintenance directors accountable for maintenance, maintenance support people and people who are in training for these positions

Course Objectives:

By the end of this course delegates will be able to:

- Make your operating plant and equipment more reliable and available for use

- Audit your operational and maintenance performance to identify improvement opportunities

- Design optimum maintenance strategies for in-the-field plant and equipment

- Make proper use of RCM results to deliver the higher maintenance performance that your management want

- Identify a clear approach to reliability improvement for both fixed plant and moving equipment

- Select applicable technologies for Condition Monitoring and Predictive Maintenance

- Appreciate how to use failure data and industry failure databases and standards

- Introduce reliability growth principles on new, existing, or old equipment

- Make sound risk-based decisions and spares holding selection

- Address failure modes with correct selection of primary and secondary maintenance actions

Course Outline:

What Is Maintenance?

- Why maintain?
- Traditional maintenance methods
- Common current practices and trends

What Is Reliability Centred Maintenance?

- Its history
- Its development
- Current usage
- Where can it be cost-effective?

How Does It Work?

- Basic features
- Key criteria
- Maintenance options
- Key outcomes

Making the Business Case and Preparing the Strategy

- Identifying and quantifying current risks
- Identifying and quantifying current costs
- Motivating decision-makers
- Identifying and empowering those who have to deliver the results
- Educating / gaining buy-in from interested parties

Implementation

- Identify business functions
- Prioritize functions

- Verify correct usage

- Identify failure modes

- Identify the consequences of failure

- Understand the failure process

- Specify the appropriate maintenance action(s)

Ongoing Requirements

- Monitoring

- Recording

- Analysis

- Continuous re-evaluation