



# Advanced Reliability Centered Maintenance (RCM) Practices

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## Course Overview

This course was developed for the attendees to learn and apply the advanced fundamentals of Reliability Centered Maintenance (RCM) and the processes that ensure the preservation of equipment functions by correct Preventive Maintenance (PM) tasks, developing Predictive Maintenance (PdM) tasks, defining failure and failure finding, and other actions that guard against failure or mitigate the consequences of failure. This course encompasses the key principles to apply to realize the maximum capability of a physical asset at the minimal cost and lowest risk.

Case studies, examples, and group exercises throughout give participant's hands-on experience to help them to master RCM concepts and implement immediately. The final day of training is applying the previous days course work into a full day interactive strategy workshop applying concepts learned.

## Learning Objectives

- **Improve** Your understanding of RCM methodology
- **Understand** The importance of Failure Modes and Effects
- **Identify** Opportunities to Lower Risk
- **Define** Best Maintenance Strategies that Optimize Reliability, Availability, & Maintainability
- **Explore** How to Apply RCM Concepts Immediately
- **Develop** Asset Management Plans and Strategies that Actually Work

## Course Format

This course will be held in a highly interactive workshop format with case studies and real-world examples.

The material has been designed using Adult Learning Methodology that believes the ideal ratio for optimum learning and retention is 60%/40%:

60% - blended combination of discussion, practical exercises, simulations, and case studies

40% - material/slides

Participants will engage in interactive exercises and discussions throughout the course to ensure the material is not only taught, but can also be applied. Limited class size (15-20 participants) is strictly enforced to enhance individual learning experiences and interaction with the instructor and other participants.

## Course Material

All attendees will receive a hard copy of the course material and a USB containing examples of forms, tools, etc. to take back for use at their organization.

## Certificate of Attendance

Upon the successful completion of this course, participants will receive a Certificate of Attendance bearing the signatures of both the Instructor and Course Organizer.

## Course Outline

- Introduction to RCM
- Reliability Centered Maintenance
- Seven Questions of RCM
- Applying PM Optimization using RCM Strategies
- Applying RCM to Predictive Strategies
- Implementing RCM Recommendations
- Work Management Process
- RCM Monitoring & Measuring
- Application

## Who Should Attend

Advanced Reliability Centered Maintenance (RCM) Practices was designed specifically for individuals participating in or aspiring to further their professional careers and accreditation.

### By Job Title:

- System Engineers
- Managers/Supervisors/Leadership
- Reliability Engineers
- Technical Authorities
- Maintenance Leads/Supervisors
- Lead Technicians & Operators
- Operation Supervisors
- Improvement Leaders
- Maintenance & Reliability Professionals
- Design Engineers

### By Sectors:

- Bio Pharmaceutical
- Facilities
- Food and Beverage
- Manufacturing
- Mining
- Oil & Gas Upstream & Downstream
- Petrochemical/Chemical
- Power Generation
- Utilities & Transportation