



TRAIN DEVELOP
EMPOWER

TRAIN • DEVELOP • EMPOWER

IN-HOUSE CORPORATE TRAINING

RELIABILITY-CENTERED MAINTENANCE (RCM)

Implement Reliability-Centered Maintenance principles that improve asset performance, reduce operational risk, optimize maintenance activities, and improve long-term asset performance.



COURSE CODE

MNT-002



DURATION
3-5 Days



DELIVERY
On-site / Virtual



PARTICIPANTS
10-25 per session



CERTIFICATE
Certificate of
Completion



CUSTOMIZABLE
Yes - Tailored to Your
Needs

[REQUEST PROPOSAL →](#)

WHY THIS PROGRAMME?



IMPROVE RELIABILITY

Apply structured RCM principles to critical assets.



REDUCE FAILURE RISK

Identify failure modes and operational consequences.



OPTIMIZE MAINTENANCE

Select effective preventive and predictive strategies.



IMPROVE AVAILABILITY

Increase equipment reliability and performance.

IN-HOUSE DELIVERY OPTIONS

- ✓ Onsite at client premises
- ✓ Live virtual instructor-led format
- ✓ Hybrid delivery format
- ✓ Customized duration based on organizational requirements

INDUSTRIES WE SERVE

- ✓ Oil & Gas
- ✓ Petrochemicals
- ✓ Manufacturing
- ✓ Mining & Metals
- ✓ Utilities
- ✓ Logistics & Transportation
- ✓ Infrastructure
- ✓ Government & Public Sector

WHY CHOOSE TRAIN DEVELOP EMPOWER?



20+
YEARS
EXPERIENCE



35+
COURSES IN
7 CATEGORIES



100%
CUSTOMIZED
SOLUTIONS



ON-SITE OR
VIRTUAL
DELIVERY



INDUSTRY
EXPERT
FACILITATORS

COURSE OVERVIEW

Asset-intensive industries face pressure to maximize equipment availability, improve reliability, and control maintenance costs. Traditional approaches can create excessive preventive maintenance, recurring failures, and inefficient resource use.

This program helps organizations implement RCM principles that improve asset performance, reduce operational risk, optimize maintenance activities, and align maintenance decisions with business objectives.

Business Challenges Addressed

- > Recurring equipment failures
- > Excessive unplanned downtime
- > Ineffective maintenance strategies
- > High maintenance costs
- > Poor asset reliability performance
- > Limited understanding of failure modes
- > Inefficient preventive maintenance programs
- > Operational risks caused by equipment failures
- > Lack of structured reliability analysis
- > Poor alignment between maintenance and business objectives

Key Learning Outcomes

- > Understand RCM principles and methodology
- > Analyze asset functions and performance requirements
- > Identify failure modes and consequences
- > Conduct reliability and risk assessments
- > Develop effective maintenance strategies
- > Optimize preventive and predictive programs
- > Improve equipment reliability and availability
- > Reduce maintenance costs and operational risks
- > Support long-term asset management objectives
- > Implement RCM initiatives

WHO SHOULD ATTEND

Reliability Engineers

Maintenance Managers

Maintenance Engineers

Asset Managers

Maintenance Supervisors

Operations Managers

Production Supervisors

Technical Specialists

Continuous Improvement

Asset Reliability
Personnel

TRAINING METHODOLOGY

Interactive learning approaches support practical application and can be customized to the organization's environment, industry, and participant experience.

ID

Instructor-Led Discussions

ICS

Industry Case Studies

PE

Practical Exercises

GW

Group Workshops

FMA

Failure Mode Analysis
Activities

RAE

Risk Assessment Exercises

ARR

Asset Reliability Reviews

ITE

Interactive Team
Engagement

COURSE MODULES

01 Foundations of Reliability-Centered Maintenance

- Introduction to RCM principles
- History and evolution of RCM
- Benefits of reliability-focused maintenance
- Asset management fundamentals
- Reliability and maintenance relationships
- RCM framework overview

02 Asset Functions & Failure Analysis

- Defining asset functions and performance standards
- Functional failures and performance gaps
- Failure mode identification
- Failure effects analysis
- Failure consequence assessment
- Criticality analysis techniques

03 Reliability Risk Assessment & Decision Making

- Reliability risk management principles
- Risk assessment frameworks
- Evaluating operational consequences
- Safety and environmental considerations
- Business impact analysis
- Decision logic in RCM

04 Developing Effective Maintenance Strategies

- Preventive maintenance optimization
- Predictive maintenance applications
- Condition monitoring techniques
- Failure-finding tasks
- Run-to-failure considerations
- Maintenance task selection

05 Implementing & Sustaining RCM Excellence

- RCM implementation planning
- Integrating RCM with existing systems
- Reliability performance measurement
- Continuous improvement strategies
- Change management considerations
- Governance and accountability



TAILORED TO YOUR NEEDS

Modules can be customized to align with your industry, operational environment, and participant experience.

[DISCUSS CUSTOMIZATION](#)



SCAN TO VIEW COURSE PAGE



READY TO IMPROVE ASSET RELIABILITY & MAINTENANCE PERFORMANCE?

Partner with Train Develop Empower to build a resilient, agile and future-ready supply chain. Let's create lasting impact together.

[REQUEST PROPOSAL](#) →



EMAIL US
iht@traindevelopempower.com



CALL US
+66 90 324 7862



WHATSAPP US
+66 90 324 7862



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www.traindevelopempower.com