XCELERATE TRAINING INSTITUTE

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MECHANICAL ENGINEERING

Reliability-Centred Maintenance (RCM) Training Course

Building Maintenance Strategies Based on Function, Failure and Risk

DURATION	LANGUAGE	FORMAT	COURSE CODE
5 days	English or Arabic	Classroom / Online	ME-105

Upcoming dates

Dates	Venue	Format	Fee
4 – 8 Jan 2027	Geneva	Classroom	€4,800
8 – 12 Mar 2027	Istanbul	Classroom	€3,800
17 – 21 May 2027	Kuala Lumpur	Classroom	€5,500
26 – 30 Jul 2027	London	Classroom	€4,800
6 – 10 Sep 2027	Madrid	Classroom	€4,800
8 – 12 Nov 2027	Manama	Classroom	€3,800

Register or ask a question

Online: x8ti.com/course/reliability-centred-maintenance-rcm-training-course/

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Reliability-Centred Maintenance (RCM) Training Course

Introduction

Too much maintenance wastes money and introduces errors; too little leads to breakdowns and safety incidents. Reliability-centred maintenance provides a structured method to decide what maintenance each asset really needs, based on its functions, failure modes and consequences.

This course teaches the RCM process in line with SAE JA1011 and JA1012, together with failure mode and effects analysis, maintenance task selection, condition monitoring strategy and implementation in a computerised maintenance system.

Learning Objectives

By the end of this course, participants will be able to:

- Explain the principles and process of RCM
- Define functions and functional failures
- Perform failure mode and effects analysis
- Evaluate failure consequences
- Select appropriate maintenance tasks and intervals
- Implement and sustain RCM results

Training Methodology

This course combines short expert presentations with practical exercises, case studies from the Gulf and international organisations, group discussions and work with real templates and tools. Participants are encouraged to bring examples from their own work so that the learning can be applied immediately.

Participants complete an RCM analysis for a real equipment item in facilitated teams.

Benefits for Your Organisation

- Higher equipment reliability and availability
- Lower maintenance costs
- Improved safety and environmental performance
- Better-justified maintenance programmes
- Stronger reliability culture

Benefits for You

- Practical RCM and FMEA skills
- Ability to facilitate RCM analyses
- Understanding of failure behaviour
- Tools to optimise maintenance plans
- A key competence for reliability engineers

Who Should Attend

This course is designed for:

- Maintenance and reliability engineers
- Maintenance planners and supervisors
- Operations and production engineers
- Asset managers
- Technicians moving into reliability roles

Course Outline

Day 1: RCM Fundamentals

- Evolution of maintenance strategies
- RCM standards and process
- Failure patterns and their implications
- Asset criticality
- Selecting systems for analysis

Day 2: Functions and Failures

- Operating context
- Defining functions and performance standards
- Functional failures
- Failure modes and causes
- Failure effects

Day 3: Consequences and Task Selection

- Hidden, safety, environmental and operational consequences
- Condition-based tasks
- Scheduled restoration and replacement
- Failure-finding tasks
- Redesign and run-to-failure decisions

Day 4: Analysis Workshop

- Facilitating RCM teams
- Completing RCM worksheets
- Setting task intervals
- Condition monitoring techniques
- Reviewing results

Day 5: Implementation

- Loading tasks into the CMMS
- Spare parts implications
- Measuring reliability improvements
- Living RCM and continuous improvement

- Action plan

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Registration Form

Reliability-Centred Maintenance (RCM) Training Course

Preferred dates: ..... Venue or online: .....

Duration: 5 days Language: .....

Please complete and email this form to us, or register online. We confirm your place and send the invoice within one working day.

Delegate information

Full name (Mr / Ms / Dr / Eng): .....

Position: ..... Telephone / mobile: .....

Official email: ..... Personal email: .....

Company information

Company name: .....

Address: .....

City / country: ..... VAT / tax number: .....

Person responsible for training & development

Full name (Mr / Ms / Dr / Eng): .....

Position: ..... Telephone / mobile: .....

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Payment

☐ Please invoice me ☐ Please invoice my company

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Email this form
info@x8ti.com

Register online
Open the course page