London TDM

Engineering and Technical Skills Training Courses

Course Venue: Malaysia - Kuala Lumpur

Course Date: From 09 August 2026 To 13 August 2026

Course Place: Royale Chullan Hotel

Course Fees: 6,000 USD

Introduction

Reliability Centered Maintenance (RCM) is a systematic approach to defining a routine maintenance program composed of efficient, scheduled tasks that balance the cost of maintenance against the operating risk. This 5-day course is designed for maintenance and reliability professionals seeking to enhance their ability to develop and implement a successful RCM program in their organization.

Objectives

- Understand the fundamentals and principles of RCM.
- Learn how to analyze and prioritize equipment and failures.
- Develop skills to create and implement a comprehensive RCM program.
- Evaluate the effectiveness of maintenance strategies.
- Enhance decision-making processes to improve reliability and safety.

Course Outlines

Day 1: Introduction to RCM and its Importance

- Introduction to maintenance strategies and RCM frameworks.
- History and evolution of RCM concepts.
- Key principles and components of RCM.
- The importance of RCM in modern industry.
- Case studies: Successful RCM implementations.

Day 2: Failure Modes and Effects Analysis (FMEA)

- Introduction to Failure Modes and Effects Analysis (FMEA).
- Identifying and assessing failure modes in equipment.
- Risk evaluation and prioritization using FMEA.
- Developing preventive maintenance tasks based on FMEA findings.
- Practical workshop: Conducting an FMEA.

Day 3: RCM Process and Implementation

- The RCM decision process flowchart.
- Steps for developing an RCM implementation plan.
- Resources and tools needed for successful RCM implementation.
- Overcoming common challenges in RCM projects.
- Interactive session: Creating an RCM plan for a sample system.

Day 4: Maintenance Strategies and RCM Tools

- Introduction to various maintenance strategies.
- Comparing Predictive Maintenance, Preventive Maintenance, and Condition-Based Maintenance.
- Exploring RCM software tools and applications.
- Developing Key Performance Indicators (KPIs) for RCM.
- Case study: Tool selection and strategy development.

Day 5: Evaluating and Sustaining RCM Programs

- Metrics to evaluate the success of an RCM program.
- Continuous improvement and sustaining RCM efforts.
- Case studies: Lessons learned from long-term RCM programs.
- Participant presentations: RCM project and findings.
- Course review and feedback session.