



Certificate in Reliability Centered Maintenance



November 6 - 7 & 8, 2019 - Karachi | 9:30 am – 5:00 pm

Course Overview

RCM is a systematic way of looking at equipment, its functions, its failure modes, effects and the consequences of failure. The purpose is to select maintenance tactics to minimise the consequences of failure and apply these tactics as part of the maintenance program. This Masterclass will focus on RCM – Reliability Centred Maintenance, its process and benefits as well as its pitfalls and requirements. Delegates will concentrate on understanding and managing these tools, defining how to bring financial returns to the organizations which implement them, and how to avoid the problem areas. Case studies and workshops will be used throughout to keep the discussions on a very practical level, with delegates being encouraged use examples from they are familiar with so that they may apply the techniques to their own work environment.

Key Benefits

By attending this Workshop , delegates will:

- **Learn** and practice the fundamentals of RCM
- **Gain** some practical exposure to this technique
- **Identify** the pitfalls of RCM and develop strategies to avoid it
- **Understand** the process of planning and implementing RCM
- **Able** to decide whether this methodology is likely to be successful in their own workplace
- **Understand** how to turn RCM into Living RCM

Who Should Attend?

Directors, Heads, Managers, Superintendents, Supervisors, Engineers, Senior Analysts, Specialists and Senior Technicians, Contractors and Sub-contractors in :

- Maintenance, Preventive Maintenance, Breakdown Maintenance
- Inspections, Condition Monitoring and Maintenance Performance Management
- Plant, Operations, Manufacturing, Production and Facilities
- Mechanical, Electrical, Utilities, Civil Engineering
- Planning, Scheduling and Quality Control
- Equipment, System and Asset Managements
- Reliability, Failure Management and Failure Prevention
- Maintenance and Technical Support
- Warehouse, Spare Parts and Materials
- Tools and Tool cribs

Course Facilitator:

Ben Stevens

President, DataTrak Systems Inc.

Former President, OMDEC Inc.

Former Consultant at Physical Asset Management Group, PWC Consulting

Over 25 years of cross-industry experience at key positions

Delivered well over 200 training programs



Certified by DataTrak Systems Inc, Canada

Participants will also be awarded a DataTrak Systems Inc, Canada certificate once they have successfully cleared the assessment at the end of the workshop.



For Registration & Details:

Karachi: 021-34547141, 34520093, 34536306

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Certificate in Reliability Centered Maintenance

COURSE AGENDA

Day 1

Purpose and objectives of RCM

- How does RCM fit into Maintenance and Reliability
- Requirements for effective RCM application
- Objectives and benefits of RCM - qualitative and quantitative KPI's

Identifying Critical Equipment and selecting target equipment for RCM.

- Criteria for deciding on criticality
- Determining which assets on your plant site are critical
- How many assets should be targeted by RCM

Activity: Applying the Criticality Criteria to select the Equipment from your workplace. This is the basis for all the workshops of the following three days

Determining Primary, Secondary and Protective Functions

- Focussing on Asset Functions as the basis for RCM

Activity: Selecting Primary, Secondary and Protective Functions

Defining Functional Failures and Potential Failures

- Functional Failures as the replacement for Total Failure

Activity: Selecting Functional Failures

- Potential Failures as the advanced warning signal for Functional Failures

Activity: Selecting Potential Failures

- The critical importance of using FF's and PF's as key drivers for maintenance improvement.

- Impact of the FF point and the PF point

Activity: Setting the FF point and the PF point

- Using Lead Times to validate FF's and PF's

Activity: Calibrating Lead Times against FF and PF points

Day 2

Defining Failure Modes

- Examining the ways in which equipments fail - relating Functions to Failures
- Understanding how and why there are multiple Failure Modes per Function
- Why are too many Failure Modes non-productive

Activity: From Functions to Failure Modes

Root Cause Failure Analysis

- RCFA as an integral part of RCM, but also as a stand-alone technique
- Resolving the problem of multiple Root Causes
- Finding and defining the Root Cause

Activity: Developing the Root Cause from the Failure Modes

- What to do when we have found the Root Cause

Activity: Developing a solution for multiple Root Causes

Analyzing Failure Effects

- How Failure Effects improve the RCM analysis

Activity: Documenting the Failure Effects

- Prioritising the most important Failure Effects

Day 3

Using Failure Consequences to Determine Maintenance Tactics

- Examining the RCM Task Selection Algorithm

Activity: Applying the RCM Task Selection Algorithm to Failure Modes -- Examples of Task selection

- Varying the Selection Algorithm

From Tactics to Work Orders

- The importance of effective Work Orders
- Converting the Tactics into practical Work Orders
- Closing the Work Order loop to ensure feedback

Activity: Creating an effective Work Order from the Tasks

From RCM to Continuous Reliability Improvement

- Scenario 1 - integrating Inspections and PM's with RCM
- Scenario 2 - integrating Emergency repairs with RCM
- Scenario 3 - integrating Corrective Maintenance with RCM

Activity: For each of the 3 Scenarios, determining the action steps to make them effective in your workplace

Understanding the Implementation of RCM

- Getting started with Implementing RCM - using actual failures as the initial implementation criterion

Activity: Practical action steps for implementation - Quick start method and standard method

Course Fee (For 3 Days)

PKR 90,000
+SST Per Participant

FEE INCLUDES:

Course material, Octara certificate of attendance, DataTrak Systems Inc Certificate (after assessment), lunch, refreshments & business networking

3 Easy Ways to Register

 021-34547141, 34520093, 34536306

 register@octara.com  www.octara.com

Send your cheque in favor of Octara Private Limited
To: **Umair Tariq, Admin & Accounts Executive**
Octara Private Limited - 1/E-37, Block-6, P.E.C.H.S., Karachi.
Tel: 021-34520708, Cell: 0343 5940485

Bring this program In-house

This workshop can be customized to suit specific needs of your organization which may lead to significant savings & avoiding pitfalls. Please contact **Naveed Rahim** at naveed.rahim@octara.com or call at **0334-3082767**