

Reliability Centred Maintenance (RCM) Course

Training Date : 06th – 10th May 2012

Training Venue: Holiday Villa Doha, Qatar

Training Time: 0730 – 1430 Hours

Training Fee : USD3,500.00 Per Delegate

COURSE INTRODUCTION

This program covers the basics of Reliability Centred Maintenance, Reliability theory, Preventive and Predictive Maintenance, evaluation of failure rates and applying these concepts in actual operation and maintenance practices.

This program is intended for all operations/maintenance/project personnel from petroleum, petrochemical, fertilizer, power plants and equipment intensive industries.

After participation in this programme, participants shall be able to assess the reliability of their industries and carry out predictive maintenance of their plant, which could save substantial maintenance costs and avert costly equipment failures.

COURSE OUTCOMES

Upon completion, participants will be able to:

- Understand how to use the resulting risk ranking as the basis for prioritising and managing all maintenance activities.
- Understand the applicability of actuarial analysis in the application of RCM.
- Participate in the development of a successful physical asset maintenance plan based on the RCM principles.
- Understand how to align the implementation of RCM and the resulting failure management policies to the risks associated with processes, systems, and physical assets and their possible failures.

SELECTED CUSTOMERS



PURPOSE OF THE TRAINING

Purpose of the RCM Five-day training course;

- To introduce the development and principles of RCM and demonstrate the necessity of the process as part of the overall reliability management program to delegates.
- To enable delegates to understand the underlying principles of failure analysis and the identification of failure modes and causes and the associated risks.
- To enable delegates to realign their thinking about maintenance and its multi-disciplinary position in all industrial enterprises.
- To enhance the understanding of delegates of how to implement site and organisation wide in the shortest possible time frame without sacrificing the integrity of the process and still enjoy the long-term benefits of the process.

WHO SHOULD ATTEND?

This is an excellent workshop for anyone that is looking to improve the efficiency and effectiveness of their existing maintenance plans and are interested in the impact of future maintenance activities on the reliability of their equipment and the cost of failure. The workshop will be of practical benefit to: Technicians, Engineers, Planners and Managers.



COURSE CONTENTS

Day # 1

Introduction to RCM

- What is RCM
- Brief History of RCM
- RCM Case Studies

Day # 2

Introduction of Planned Maintenance

- Overview of planned maintenance principles
- Characteristics of world-class planned maintenance
- Basic concepts of equipment Failures

Day # 3

Overview of RCM Analysis Steps and Tools

- Measures of Equipment performance
- Workshop: Estimating MTTF and equipment failure pattern
- Types of Maintenance Tasks
- Workshop: Identify different appropriate maintenance action
- Overview of six-step RCM analysis approach
- Overview of RCM Analysis Tools.

Day # 4

Traditional RCM Analysis Steps

- Logic Tree Analysis (LTA)
- System Definition and selection using Pareto Analysis
- System Function and Failure Analysis
- Equipment failure mode identification
- Equipment Failure Mode Categorization

Day # 5

Applying Risk-based Tools in RCM

- Overview of risk
- Risk-based system selection
- Risk based maintenance Task
- Risked –based task selection guides
- Managing an RCM project
- Resources needed
- Workshop: Scoping an RCM Analysis

Predictive maintenance and Reliability centred maintenance.

Advantages of predictive maintenance.

What to maintain and how to maintain.

COURSE INSTRUCTOR

Mr. James M. Watterson, is graduated with Masters of Science (Engineering Technology) from Belfast Collage of Technology and he is the member of the several Professional Bodies;

- Fellow – Institute of Operation's Management
- Fellow – Royal Graphical Society
- Member – British Institute of Management
- Chartered Member – The Institute of Logistic and Transports.

He is a highly experienced consultant and trainer with over 35 years experience in various disciplines:- engineering, maintenance, marketing, management, project and contract management. Countries where experience has been gained include; Middle East, Mainland-Europe, North America, Australia and North Africa.

Since the past 30 years, he has delivered hundreds sessions of training courses in the area of technical and management such as;

- HaZOP and HaZARD Management Control
- Project Management
- Troubleshooting with all rotating equipment including turbines- gas and steam applications
- Failure Analysis and Machinery diagnosis
- Root Cause Analysis (RCA)
- Pump maintenance- centrifugal and reciprocating-Dismantling and rebuilding pumps
- Maintenance Planning and Scheduling
- Plant shutdown and Start-Up activities.
- Total Productive Maintenance
- Risk & Hazards Analysis
- Centrifugal Compressors – Operations and Maintenance
- Plant Shutdown and Start-Up Techniques
- Problem-solving and Decision Making
- Contract Management
- Advanced Supervisory Training
- Recruitment skills for hiring new employees
- Pipe design and pipeline trouble-shooting

In the Middle East and North Africa (MENA), he has conducted training course for the company such as; Saudi Aramco, Sabic Industries, Saudi Arabia Electricity Company, Crystal Co., Kuwait Petroleum Corporation, Banagas, Oman LNG, Oman Gas, Oman Occidental Refinery, Adgas, Gasco, Takreer and etc.

Registration Form

Please Send Your Registration to:

Tel:	006.013.2082143	Fax:	006.09.6178443	E-mail	info@cfpets.com
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Course Details

Course Name:	Reliability Centred Maintenance (RCM)	Course Date:	06 – 10 May, 2012
Course Fee:	USD 3,500.00 Per Delegate	Venue:	Holiday Villa Doha, Qatar

Company Information

Organization	
Address	

HR / Training Manager

Invoice to be sent to

Name :		
Tel no.:		
Fax no.:		
E-mail :		

Participant Information

	Participant # 1	Participant # 2	Participant # 3
Full Name :			
Job Title :			
Department :			
Telephone No. :			
Mobile No. :			
Fax No. :			
E-mail Address :			

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