

Applied Reliability - Centered Maintenance

Improve Your Reliability Centered Maintenance Performance From The Certified Facilitator

19th - 21st June 2023 at Jakarta, Indonesia



Petrosync Distinguished Instructor

Ahmed D., PHD, CMRP, CRE, PE.

Maintenance and Reliability Expert



Case Studies,
Discussion, and many
Practical exercises!

Position and Credentials:

- Certified Maintenance & Reliability Professional (CMRP)
- Certified RCM Facilitator (SKF / Aladon)
- Certified through the Institute of Asset Management (UK) as organization preparation facilitator / service provider respectively for the ISO 55000 (Asset Management) and ISO 31000 (Risk Management) standards.
- Certified Reliability Engineer (CRE)
- Certified ultrasonic testing specialist (BINDT)
- Certified vibration analyst level 1 (BINDT)
- Certified Investigator (Taproot)
- Certified Instructor (OSHA (Several areas))
- Certified Fire Investigator (OSHA)
- Certified Thermographic Imaging analyst 3 (FLIR)
- Certified Oil Analyst 3 and lubrication program developer (NOREA)
- Certified RBI Specialist and Inspection program developer (API) (API 580, 581, 570, 510)
- Certified Facilitator (GE)
- Certified Presenter and Public Speaker (GE)

PROGRAM SCHEDULE

08:00	Registration (Day1)
08:10 – 10:00	Session I
10:00 – 10:15	1 st Tea Break
10:15 – 12:30	Session II
12:30 – 13:30	Lunch Break
13:30 – 15:00	Session III
15:00 – 15:15	2 nd Tea Break
15:15 – 16:00	Session IV
16:00	End of Day

**Schedule may vary for each training*



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Course Overview

The purpose of this course is to broaden the knowledge of the Reliability Centered Maintenance (RCM) process and illustrate how RCM can apply within an industry neutral application. The discussion will drive deeper into the various aspects of RCM and different methodologies applied (SRCM, RCM2, RCM Turbo, ..etc) in order to identify the most appropriate approach for a successful implementation. RCM introduces three basic concepts for asset management. Identify what is important, define what should be done, and change the existing programs is what RCM practitioners will possess and commune when applying the RCM process.

We will also study some techniques that will engage people to change the existing program, as well as explore general RCM project steps.

Course Objectives

In order to comprehend and practice these techniques, we will use a number of practical sessions – some simple examples to illustrate the principles, but also reconsider a number of technical RCM topics.

At the end of this course, you should:

- Know how to describe the RCM process flow
- Understand the importance of identifying and categorizing assets
- Understand criticality and the FMECA approach in RCM
- Understand how to develop a RCM analysis, as well as the implications of making the strategy work
- Understand the requirements for RC
- Recognize the importance of data structure and content before you do any kind of strategy work
- Understand RCM customization
- Understand why to conduct a task comparison
- Understand what work packaging is
- Understand how to implement RCM
- Recognize what a living program is
- Know the content of a RCM project plan

Specially Designed For

This course specially designed for the following disciplines:

- Maintenance and Reliability Engineers and Managers
- Engineering personnel and managers

IN-HOUSE SOLUTIONS

SAVE COST • IMPROVE PERFORMANCE • REDUCE RISK

PetroSync understands that in current economic climate, getting an excellent return on your training investment is critical for all our clients. This excellent training can be conducted exclusively for your organization. The training can be tailored to meet your specific needs at your preferred location and time. We will meet you anywhere around the globe.

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Training Agenda

Day 1 :

- Module 1: Setting the Scene (Course Introduction)
 - RCM History and introduction to the RCM Standards SAE JA1011, SAE JA 1012
- Module 2: RCM Overview and Business Context
- Break
- Module 3: RCM Phase "What is Important?"
- Lunch
- Practical Session: Criticality Matrix
- Module 3: RCM Phase "What is Important?"
- Break
- Module 3: RCM Phase "What is Important?"
- **Practical Session: Developing system Boundaries and Asset Hierarchical Structure (ISO 14224:2016)**
- Conclude Day 1

Day 2 :

- Reflection Day 1
- Practical Session: Functional Failure Analysis
- Module 4: RCM Phase "What should be done?"
- Break
- Module 4: RCM Phase "What should be done?"
- Lunch
- **Practical Session: Maintenance Strategy (What works best?)**
- Break
- Module 5: RCM Customization and Requirements
- **Practical Session: FMEA**
- Conclude Day 2

Day 3 :

- Reflection Day 2
- Module 6: Change the Existing Program (Implementation and Improvement)
- Break
- **Practical Session: Change the Existing Program**
- Module 6: Change the Existing Program (Implementation and Improvement)
- Lunch
- Module 7: RCM Project
- Break
- **Practical Session: Project Plan**
- Module 8: RBI Integration with RCM in AMST
- Closure and Reflection Day 3

HYBRID TRAINING SOLUTIONS

FOCUS TRAINING • REDUCE COST • ENHANCED RESULTS

Over the years, there has been a growing demand for hybrid training programs. It is an excellent option to maximize your training dollar for your specific training needs. We make it possible to run a training program that is customized totally to your training needs at a fraction of an in-house budget!

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Ahmed D., PHD, CMRP, CRE, PE.

Maintenance and Reliability Expert

Ahmed is the CEO and President of Operational Excellence Experts Consultant and Training with 20 years experiences in asset management, technical asset integrity management, asset management, maintenance and reliability.

Ahmed is certified on Maintenance & Reliability Professional (CMRP). He is Founder and Chairman of the board of the Egyptian Society for Asset Management Professionals.

Ahmed Developed Reliability Departments and consulting divisions for GE (Bentley Nevada), Meridium, SKF in Middle East and Africa as well as several customer companies

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➔ Publications:

- Introduction to and implementation of International Standard ISO 14224:2006 – Reliability and Maintenance Data Management and Transfer(Arabic / DPIC Publications 2014)
- Introduction to and implementation of International Standard ISO 55000:2014 – Asset Management (Arabic / DPIC publications Egypt 2014).
- Introduction to and implementation of International Standard ISO 31000:1998 – Risk Management (Arabic / DPIC Publications 2015).

➔ Partial Client Lists:

- Saudi Aramco
- Egyptian Ethylene and Derivatives Company
- GASCO
- ARAMCO - KSA (East West Pipeline)
- ADGAS
- ADMA – OPCI
- OMV Petrom
- Middle East Refining Company
- KNPC
- Khartoum Refining Company
- Alexandria Mineral Oil Company
- Pharonic Oil Company
- Galaya Metal
- Ideal Standard
- Smart Villages Development and Management Company
- Amerya Petroleum Refining Company
- Qatar Aluminum
- Email
- UGDC
- Raya Network Services

