

RELIABILITY CENTERED MAINTENANCE (RCM) TRAINING

Organized by MIMOS & Horizon3 Sdn Bhd

Date: October 18 - 20, 2016

“Optimizing Maintenance Management via RCM”

The successful management of physical assets requires more than technical skills. Commitment to reduce the cost of ownership demand more precisely focussed asset management and failure management strategies. A plan to determine what to do and when to do it is a good starting point. Trial and error approach is no longer acceptable as it takes too long and is simply too expensive. Maintenance, in combination with risk based tools such as RCM will result in cost-effective and safe production performance. Many Fortune 500 companies, globally has implemented RCM with great success.

Besides understanding how to analyze, proper implementation of plans is vital, as the results only come with the execution of work. This 3 day course will equip participants with the basic theory, real understanding of the terminology and useful hands-on application.

RCM Training Package Includes

- Morning / Afternoon meals and Lunch
- Complete Handouts on the RCM course
- Exercises and handouts on RCM
- Actual Case Study on RCM
- CD Copy of RCM Training
- Certificate of Attendance
- Literatures
- Industries Standard and Best Practice.



Any inquiries?

Email: nazly@horizon3.my

Phone: 019-988 0192

The course will consist of theoretical and practical session with 60 and 40% allocated time respectively. The course objectives and information are as follow:

- Provide a deeper understanding on effective and optimized maintenance through reliability perspective
- Realize that RCM implementation lead to achieve safety and environmental goals whilst increasing operational performance and saving operating costs
- Realize that maintenance tasks will be based from the consequences of the failure itself
- Know when to use the different maintenance tasks at hand by producing a functionally based Failure Modes Effects Criticality Analysis (FMECA)
- Learn fundamental of failures which extensively utilizes Bath Tub Curve and how it affects us in our day to day maintenance activities
- Learn how to apply Reliability-Centred Maintenance in our daily activities
- Identifying and understanding task, which is reliability driven such as Operator Driven Reliability, Condition Based Maintenance and others. These will eliminate fire fighting and introduce proactive type of maintenance.

Who should attend?

RCM is best done in teams; therefore we invite multi-disciplinary teams representing Maintenance, Operations, Reliability, Quality, Safety, System, Logistic, Test, Asset and Integrity personnel from all type of industries. You will benefit whether you are a supervisor, manager or specialist.

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The topics covered in the *Reliability Centered Maintenance (RCM) Training* provide an overview of the fundamental Reliability Centered Maintenance (RCM) techniques and procedures. RCM is done by asking seven (7) questions about our asset or system that is being maintained

- What are the functions and associated performance standards of the asset in its present operating context?
- In what ways does it fail to fulfill its functions?
- What causes each functional failure?
- What happens when each failure occurs?
- In what ways does each failure matter?
- What can be done to predict or prevent each failure?
- What should be done if suitable proactive tasks cannot be found?

MAIN TOPICS

- A) RCM Introduction and Overview
 - History
 - Fundamental of Failures
 - Applications and Benefits
- B) RCM Analysis preparation (using FMECA Information Worksheet)
- C) Equipment to Be Analyzed Selection
 - Equipment Criticality Analysis (ECA)
 - Criticality Factors
- D) Identify the Functions
- E) Identify the Functional Failures
- F) Identify the Causes of Failure (Failure Modes)
- G) Identify and Evaluate (Categorize) the Effects of Failure
- H) Select Maintenance Tasks
 - Published Task Selection Questions
 - Comparing Maintenance Strategies Based on Cost and Availability
 - a. Run-to-Failure
 - b. Repair/Replacement
 - c. Service Tasks
 - d. Failure Finding Inspections
 - e. On Condition Inspections
 - f. One Time Tasks
 - Calculating Optimum Maintenance Interval
- I) RCM Workshop, prepare RCM Information and FMECA Worksheet

ABOUT YOUR TRAINER

Name: Arbaeyah Ismail

Education: Universiti Teknologi PETRONAS, Perak, Malaysia (BSc. Electrical & Electronics Engineering)

Professional Experience:

- **Proton Nasional Berhad;** Design Engineer (2004)
- **PETRONAS Carigali Sdn Bhd;** Operation Performance Improvement Engineer (2006-2007)
- **PETRONAS Carigali Sdn Bhd;** Senior Reliability & Maintenance Electrical Engineer (2007-2011)
- **Horizon3 Sdn Bhd;** Senior Reliability Engineer (2011 - Current)

Summary of Experience:

- Experienced reliability and maintenance engineer / consultant with more than 12 years of solid experience in operation, maintenance, basic design, condition -based monitoring, reliability management and reliability engineering of electrical and rotating machineries
- Possess hands-on experience and supervisory of related fields, specifically in oil and gas facilities
- Possess in-depth knowledge of root cause failure analysis (RCFA) and common reliability tools i.e. RAM, RCM, Weibull and FMEA methodologies.
- Conducted reliability and maintenance trainings in Malaysia

REGISTRATION FORM

Training: RELIABILITY CENTERED MAINTENANCE (RCM) TRAINING

Date: October 18-20, 2016

Company/Uni Name :

Address :

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Contact person :

Tel No : **Email** :

Details of participant(s)

No	Participant's full name	Designation	New IC / Passport No
1			
2			
3			
4			
5			

Training Fees

RM 3,500 per person

Payment

All cheques should be crossed "A/C Payee" made payable to **HORIZON 3 SDN BHD**

Bank transfer to MAYBANK account:

514758309640

Enquiries

Kindly contact Mr Nazly Mohd Kassim

for more details on the training:

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