

# FMEA/FMECA for Equipment & Assets



June 23, 2021, Online Training – Microsoft Teams Platform



## Training Package Includes:

- Link to be provided on FMEA materials in ppt
- Lifetime access to RSA Reliability Newsletter
- 1 RSA book of your choice
- Certificate of Attendance to be given via email
- Quizzes and Exercises to be given online

## About the Resource Speaker:

**Rolly**, is a seasoned international reliability and maintenance consultant with 30 years of solid experience in the field. He had been invited in different countries and have conducted reliability and maintenance trainings in United Arab Emirates, India, Malaysia, Indonesia, Nigeria, Bangladesh, Botswana, Brunei, Thailand, China and South Africa. His portfolio of maintenance trainings include Maintenance Management courses on TPM, Lubrication, Tribology, Condition-Based Maintenance, RCM, RCFA, Planned Maintenance, World Class Maintenance Management, The 12 Disciplines, Oil Contamination Control, Maintenance Indices and KPI's, Maintenance Management Strategies and much more. Rolly previously worked w/ Amkor Technology Philippines, as a TPM Senior Engineer, an industry engaged in the manufacture of IC products and spearheaded their Planned Maintenance initiative compose of maintenance managers and engineers. He was also responsible for the dramatic reduction of unplanned breakdowns in their TPM Journey as well as RCM implementation on their Facilities AHU units and as well as their substation equipment. Rolly had written 6 books on the subject matter .



## Objective of the Course :

Provide an understanding on what FMEA/FMECA is all about and how this methodology can aid in improving the reliability of the plant.

Define FMEA/FMECA as a tool to understand failures modes and the risk involved.

Understand the benefits of both FMEA and FMECA and provide an understanding on how to link them with other problem solving tools.

Allow us to identify areas of our assets that can benefit both users and maintenance most by aiding them to identify failure modes and assess their risks and criticality.

## Who Should Attend:

- Maintenance Managers
- Facilities and Utilities Managers
- Preventive Maintenance Group
- Predictive Maintenance Groups
- Reliability Engineers and Managers
- Operations and Production Managers
- Management and Decision Makers
- Continuous Improvement Groups
- People in charge of their assets
- CMMS and Spare Parts Group
- People in charge of lubrication
- Maintenance Planners
- CMMS Groups
- Decision Makers
- Maintenance Managers
- Reliability Managers
- Continuous Improvement Leaders
- Those in Charge of Reliability and Maintenance



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## Course Details and Objective of Equipment FMEA/FMECA

### Module 1 : Introduction to FMEA and FMECA

- FMEA defined
- History of FMEA/FMECA
- Different Types of FMEA/FMECA
- Purpose of Equipment FMEA
- Difference between FMEA, FMECA and RCM
- Mistakes in doing FMEA and FMECA

### Module 2 : Steps In Conducting FMEA/FMECA

- Selecting the Team for Conducting FMEA/FMECA
  - Complete the Header Form
  - Define the functions
    - Primary and Secondary Functions
  - List all Potential Failure Modes
    - Different Sources of Failure Modes
  - Determine the Failure Effect
    - How to Effectively Write the Failure Effects
  - Determine the severity of the failure mode
    - How to define a Critical Failure Mode
    - How to Use the Table on Severity
  - Determine the classification of failures
  - Determine the potential cause of failures
  - Determine the occurrence of the failure
    - How to use the Table on Occurrence
    - MTBF and Failure Rate Explained
  - Determine design current machinery controls
  - Assign detection ranking
    - How to Use the Table on Detection
  - Determine Risks Priority Number (RPN)
    - How to Prioritize RPN
  - List recommended corrective actions
  - Assign responsibility and target date completion
  - List down actions taken
  - Recalculate severity, occurrence, detection and RPN
  - Tips in conducting a successful FMEA analysis
  - Workshop on FMEA/FMECA
  - Take Post Quiz on FMEA/FMECA
- End of Training on FMEA/FMECA

Registration Start : 8:15 to 8:30 am  
Start of Training : 8:30 am  
Morning Break : 10:15 to 10:30 am  
Lunch Break : 12:00 to 1:00 pm  
Afternoon Break : 3:15 to 3:30 pm  
End of Day 3 : 5:00 pm

*It was clarified that conducting FMEA/MECA and getting the RPN does not immediately mean getting the higher RPN which means that higher priority should still be based on common sense. Proper accomplishment of the FMEA/FMECA form. From Cris Fuentecilla, Civil Maintenance*



**Hedcor Inc., Benguet, Philippines**  
FMEA/FMECA Master Class, June 22, 2015



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## Feedback from Delegates

- I was able to differentiate between FMEA and FMECA. In order to come up with the Risk Priority Number, we should be able to know the severity, occurrence and detection that the failure will occur in the system. From Marlon Torralba, Plant Operator, Hedcor Inc.,
- FMEA/FMECA as a tool on effectively identifying of risks and failure. Good start before attending RCM, opening knowledge on solving problem. From Anselma Cobcobo, Plant Operator, Hedcor Inc.,
- Very excellent facilitator. I learned a lot about FMECA techniques and how to attack problem may arise on our plant through the use of this seminar. Very clear discussion. From Melchor Gallate, Plant Operator, Hedcor Inc.,
- Knowledgeable speaker. Lively. Able to defend answers. Good debate. Timely for Risk Management plan and Asset Management plan preparation for the use of this seminar. Very clear discussion. From Melchor Gallate, Plant Operator, Hedcor Inc.,
- It was clarified that conducting FMEA/MECA and getting the RPM does not immediately mean getting the higher RPM which means that higher priority should still be based on common sense. Proper accomplishment of the FMEA/FMECA form. From Cris Fuentesilla, Civil Maintenance
- Understanding the objective of FMEA/FMECA, potential failure mode and effects analysis. Criteria and severity of effects, likelihood and detecting design and controls. Was able to determine the occurrence of the failure and recommended corrective actions. From Ferdie, Operator
- Well explained process in doing FMEA/FMECA. Examples are related in our line of work. From Justin Ryan Lee, Hedcor Inc.,
- Good Training. Thank sir for the knowledge. From Rowena Tang-ey, Plant Operation,
- The training was fun and entertaining because the facilitator is funny and most of all because of his mastery of the topics making it top notch. From Cristanto Ventura
- FMEA/FMECA is a good problem solving tool that can help both operations and maintenance in managing their assets. The facilitator is well knowledgeable on the topic. From Carlo Abe, Instrumentation and Control Engineer, Hedcor Sibulan
- Lots of new ideas had been discussed on how to deal with failure modes which help us to analyze better . From Joel Dacnes, Electrical Engineer, Hedcor Inc.,
- The topic is very applicable especially to operations and maintenance. This will study the criticality of failure modes and its effects and develop actions to reduce the likelihood of the failure. From Martin Anacio, PND Engineer, Hedcor.
- Everything is good about this training for each employees that attended this training. From Christmer Canete, Instrumentation and Control, Hedcor Bukidnon Inc.,
- The topic was thoroughly explained and the facilitator was able to provide realistic examples. The duration of the training was well utilized because it is very informative and at the same time entertaining. From Faye Duclayan, Staff engineer, Hydropower Generation



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## Training Investment Costs:

- 1 Delegate: Php 7,500.00 + 12% VAT
- 2 Delegates: Php 14,700.00 + 12% VAT
- 3 Delegates: Php 21,750.00 + 12% VAT
- 4 Delegates: Php 28,400.00 + 12% VAT
- 5 Delegates: Php 35,000.00 + 12% VAT

If your company is **NON-VAT** send us your supporting documents.

## Payment Procedure and Policy:

- Since this is an Online training, we accept bank or wire transfer or cheque payments. For check payment kindly pay to RSA Reliability and Maintenance Consultancy Firm. Do not shortcut my company name to avoid problems with the bank..
- Official Receipt will be provided after issuance of the complete payment together with BIR form 2307 for Philippine clients only.
- Payment should be done during the day of the training. If this is not possible, provide us a clear date on when we can get the payment.
- 10% Tax can be deducted from the total cost of training provided industry joining the training to provide BIR form 2307 together with the payment

## 100% Money Back Guarantee

- If for any reasons you were not happy or satisfied with the outcome of the training. Our small firm offers you **Unconditional 100% Payment Back** and you keep the WCM Book and all the materials provided during the training provided payment had been received during the registration period.



## Cancellation, Postponement Policy

- For delegates who will not complete the duration of the training, seminar and workshop, RSA Reliability and Maintenance Consultancy Firm will offer no refunds regarding this matter, certificates of attendance will only be provided to those delegates that will complete the whole training.
- In the event that the seminar will be cancelled as a result of unforeseen events such as Acts of God or blackouts or problems on internet connectivity. We shall resume the training the following day or we shall send you an email on the date that the training will be resumed.
- In case of a low turn out of delegates for this event, RSA Reliability and Maintenance Consultancy Firm reserves the right to cancel the event. An email will be sent to concerned parties regarding the cancellation.
- In the event you would like to cancel your participation in this seminar, kindly send us an email one week before the event is due. If you have made an advance payment and your delegates did not attend and have not informed us one week before the event, you will be charged with the full amount of the training fee.
- In case the delegate register for this event will not make it on this event, kindly notify us through email regarding the changes in the name of the delegates.

## How To Register for this Event:

Step 1: Send us an email on the following:

- Full Name of Delegates: (FN, MI, LN)
- Email of participating delegates
- Position or Designation / Department
- Name of Industry
- Type of Industry
- How is payment to be made Cash or Check
- Is your industry VAT or NON-VAT

Step 2: Once we have confirmed the names of those you will send, we will provide a confirmation email. Strictly No last minute registration will be allowed. We will be using MS Teams as the online platform.

