



# FMEA and RCM Analysis for Railway Industry

## SECURE YOUR PARTICIPATION!

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### Why Should attend this training ?

- To understand the failures, risk and criticality concepts.
- To understand and implement the different application of FMEA and FMECA concepts
- To understand and implement the Design Failure Mode and Effect analysis (DFEMA).
- To understand and implement the Process Failure Mode and Effect analysis (PFMEA).
- To understand and implement the System Failure Mode and Effect analysis (FMEA).
- To understand the FMEA application to FRACAS.
- To understand the Maintenance concepts.
- To understand and apply the Reliability Centered Maintenance (RCM) concepts.
- To understand the RCM input to RAM analysis, LCC and spare part definition.

To understand and implement the RCM output to LCC analysis.

To understand and implement the RCM out put to spare parts modeling.

To understand and implement the RCM output to RAM analysis.

### Who Should attend this training ?

Reliability Managers, Reliability Engineers, Safety Engineer, Asset Managers, Maintenance Managers, Maintenance Engineers.

### Training Outline:

#### Day 1:

- Module 1: Introduction
- Module 2: FMEA concept and Standards
- Module 3: Risk, RPN and Criticality
- Module 4: SFMEA/DFMEA/ PFMEA/ FMEA concept
- Module 5: FMEA Management
- Module 6: FMEA applied to FRACAS
- Module 7: FMEA Case Studies

#### Day 2:

- Module 1: Maintenance Concepts
- Module 2: RCM concepts and standards
- Module 3: RCM input to RAM analysis
- Module 4: RCM input to LCC
- Module 5: RCM input to Spare parts
- Module 6: RCM Management
- Module 7: RCM input to Asset Management
- Module 8: RCM application cases
- Module 9: FMEA and RCM application software case studies



### Trainer : Dr Eduardo Calixto, CRP, CFSE.,

He's Reliability and Safety Engineer Expert with over 18years experiences in Oil & Gas, Railway, Aerospace and Mining Industries. He has Doctoral Degree in Energy and Environmental, Master in safety System Management, Bachelor in Industrial Engineering. Author of the best seller Book Gas and Oil Reliability Engineering: Modeling and Analysis (material content of this training).

