



# RAM AND LCC Program Implementation for Railway Industry (Based on EN50126)

## SECURE YOUR PARTICIPATION!

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### Why Should attend this training ?

- To understand the RAM and LCC program element such as RAM requirement, RAM organizational Infrastructure, Methods and deliverables, RAM Plan;
- To understand the RAM and LCC implementation barriers such leadership, culture, resources and organizational structure;
- To understand the different types of FMEA such as DFMEA, SFMEA, PFMEA, FMEA and their implementation in different phases of rolling stock life cycle;
- To understand the RCM concepts and the link with FMEA as well as the link with the CMMS and Asset management system;
- To understand the FRACAS concepts, the link with FMEA analysis and its implementation before operation phase;
- To understand the Lifetime Data Analysis Concepts and application to be an input for RAM analysis as well as support the warranty verification and validation;
- To understand the RAM analysis concepts and application in different rolling stock life cycle;
- To understand the LCC concepts and application;

### Who Should attend this training ?

Reliability Managers, Reliability Engineers, Asset Managers, Maintenance Managers, Maintenance Engineers, Maintenance technicians

### Training Outline:

#### Day 1:

- Module 1: Introduction
- Module 2: RAM and LCC concept
- Module 3: EN 50126 concepts
- Module 4: RAM program Implementation and barriers to implementation
- Module 5: FMEA concepts
- Module 6: FMEA application case studies
- Module 7: RCM concepts
- Module 8: RCM application case studies

#### Day 2:

- Module 1: FRACAS and Lifetime data analysis
- Module 2: LDA case studies
- Module 3: ALT/ Halt concepts
- Module 4: RGA concepts
- Module 5: RAM Analysis concepts
- Module 6: RAM Analysis case studies
- Module 7: LCC concepts Module
- Module 8: LCC case study



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

He's Reliability and Safety Engineer Expert with over 18 years 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).

