



**EDUARDO CALIXTO**  
CONSULTING

# RAM Analysis for Process and Oil and gas Industry

## SECURE YOUR PARTICIPATION!

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### Why Shoud attend this training ?

- To understand and apply the Reliability, operational availability and maintainability concept as basic of equipment specification and asset performance Index.
- To understand and apply the RAM methodology applied to different asset lifecycle phases.
- To understand and apply how to organize and assess the historical failure and repair database.
- To understand how to use specialist opinion to predict Reliability and maintainability.
- To understand and apply the methods to define type Probability Density function (PDF) in order to predict PDF parameters, reliability, failure rate, MTTF, MTBF, MTTR.
- To model the equipment in component level applying RBD and FTA.
- To understand and apply the effect of preventive maintenance and inspection in equipment reliability and operational availability.
- To understand and apply the concept of preventive maintenance optimization
- To understand how to integrate FMEA, RCM and RAM analysis to support asset management.
- To understand the RAM System and equipment modeling and system product production modeling.

### Who Shoud attend this training ?

Reliability Managers, Reliability Engineers, Asset Managers, Maintenance Managers, Maintenance Engineers.

### Training Outline:

#### Day 1:

- Module 1: Introduction
- Module 2: RAM concept
- Module 3: RAM methodology concept
- Module 4: Lifetime data analysis (LDA)
- Module 5: LDA case studies
- Module 6: RBD and FTA Models
- Module 7: RBD and FTA case studies

#### Day 1:

- Module 8: Preventive Maintenance Modeling
- Module 9: Inspection Modeling
- Module 10: Spare part Modeling
- Module 11: LCC Modeling
- Module 12: RAM Simulation
- Module 13: RAM critical equipment
- Module 14 RAM Sensitivity Analysis
- Module 15: RAM Modelling: Equipment Level
- Module 16: RAM system product's production modelling: System Level



## 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).

