€TRAINING

Reliability Availability and Maintainability
RAM

21 - 25 July 2024
Amman (Jordan)

Reliability Availability and Maintainability RAM

REF: O1705 DATE: 21 - 25 July 2024 Venue: Amman (Jordan) - Fee: 4250 Euro

Introduction:

The Reliability, Availability, and Maintainability RAM training program focuses on enhancing understanding and application of RAM principles in maintenance and operations. Participants will explore methodologies to improve system reliability, optimize availability, and streamline maintenance processes to achieve operational excellence.

Program Objectives:

By the end of this program, participants will be able to:

- Understand the concepts of Reliability, Availability, and Maintainability RAM.
- Learn strategies to enhance system reliability and availability.
- Develop skills in implementing RAM principles in maintenance planning.
- Identify opportunities for improving maintenance efficiency and reducing downtime.
- Apply RAM metrics and tools to evaluate and optimize operational performance.

Target Audience:

- Maintenance managers and engineers.
- Reliability engineers and analysts.
- Operations and facility managers.
- Professionals involved in asset management and optimization.
- Employees seeking to enhance their expertise in RAM principles and practices.

Program Outline:

Unit 1:

Introduction to RAM Concepts:

- Overview of Reliability, Availability, and Maintainability RAM.
- Importance of RAM in Maintenance and Operations.
- RAM Metrics and Key Performance Indicators KPIs.

- Comparative Analysis of RAM Approaches.

Unit 2:

Enhancing System Reliability:

- Reliability Engineering Fundamentals.
- Failure Modes and Effects Analysis FMEA.
- Reliability-Centered Maintenance RCM Strategies.
- Predictive Maintenance Techniques.
- Continuous Improvement in Reliability Engineering.

Unit 3:

Optimizing System Availability:

- Availability Analysis and Calculation Methods.
- Factors Affecting System Availability.
- Operational Availability vs. Mission Availability.
- Techniques to Improve System Availability.
- Case Studies on Successful Availability Optimization.

Unit 4:

Improving Maintainability:

- Maintainability Engineering Principles.
- Design for Maintainability.
- Maintainability Metrics and Assessment.
- Planned Maintenance Strategies.
- Enhancing Maintainability through Technology.

Unit 5:

Applying RAM in Maintenance Planning:

- Integrating RAM Principles in Maintenance Planning.
- Risk-Based Maintenance RBM Approaches.
- Root Cause Analysis RCA for Maintenance Optimization.
- Implementation of RAM Best Practices.
- Future Trends in RAM and Maintenance Optimization.

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