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Course Name

Maintenance Planning and Reliability Engineering

Sector Name

Maintenance & Reliability Management

Document Type

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Maintenance Planning and Reliability Engineering

Course Introduction

This training program is designed to cater to the needs of mechanical, electrical, operations, and instruments personnel involved in maintenance activities such as Planning, Organizing, Directing, Staffing, Coordinating, and Budgeting of maintenance activities related to any type of production organization.

After attending this training program, participants shall be able to carry out maintenance planning and scheduling activities and reliability engineering activities more scientifically, using the knowledge gained by this program. For improving the understanding of the topic, a number of hands-on exercises are provided to the participants for their active role in the interactive training

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Maintenance Planning and Reliability Engineering

Target Audience

Maintenance engineers, Operations, Instrumentation engineers, Planning Engineers, and Reliability Engineers.

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Maintenance Planning and Reliability Engineering

Learning Objectives

- ✓ Understand planned vs unplanned maintenance.
- ✓ Prioritize maintenance tasks effectively.
- ✓ Learn key metrics for measuring maintenance performance.
- ✓ Allocate resources and estimate availability for maintenance planning.
- ✓ Develop realistic and effective maintenance programs.
- ✓ Monitor and evaluate maintenance performance with ratios and KPIs.
- ✓ Measure maintenance productivity and reliability statistically.
- ✓ Minimize emergency maintenance.
- ✓ Understand and implement KPIs for maintenance performance.
- ✓ Develop and manage a maintenance schedule.
- ✓ Learn scheduling methods: allocation, dynamic, and queuing models.
- ✓ Optimize resources and manage pending jobs.
- ✓ Troubleshoot electrical motor problems.
- ✓ Generate effective maintenance performance reports.
- ✓ Understand Reliability Engineering concepts.
- ✓ Learn why Reliability Engineering is crucial for maintenance.
- ✓ Explore reliability predictions and their impact.
- ✓ Apply fault tree and event tree analysis in maintenance.
- ✓ Understand Reliability Block Diagrams (RBD).

✓ Learn key concepts: MTBF and HAZOP for maintenance optimization.

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Maintenance Planning and Reliability Engineering

Course Outline

✓ 01 DAY ONE

Maintenance types.

- ✓ Planned vs Unplanned Maintenance
- ✓ Prioritization of maintenance activities.
- ✓ Measurements of maintenance

Planning

- ✓ Identifying and allocating maintenance resources
- ✓ Estimating resource availability
- ✓ Developing maintenance plans
- ✓ The planner’s “Tool Box” aids in improved planning
- ✓ Developing effective and realistic maintenance programs
- ✓ Equipment and maintenance standards
- ✓ Monitoring maintenance performance
- ✓ Quantitative techniques/ratios
- ✓ Maintenance scheduling / controlling pending jobs

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Maintenance Planning and Reliability Engineering

Course Outline

✓ 02 DAY TWO

Measuring Maintenance Performance and Making Improvements:

- ✓ Statistical measurement of the maintenance efforts
- ✓ Maintenance productivity and reliability
- ✓ Minimizing emergency maintenance
- ✓ Understanding KPI (Key Performance Index)

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Maintenance Planning and Reliability Engineering

Course Outline

✓ 03 DAY THREE

Scheduling:

- ✓ Work Control & Monitoring
- ✓ Developing a maintenance schedule
- ✓ Scheduling methods – allocation, dynamic, and queuing models
- ✓ Developing a daily and weekly work schedule
- ✓ Optimizing resources, lead leveling, and CIN scheduling
- ✓ Troubleshooting electrical motor problems
- ✓ Evaluating electrical systems

Report generation and Graphical Presentation:

- ✓ Maintenance performance indices
- ✓ Effective presentation of maintenance data
- ✓ Graphical “do’s and “don’t’s “

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Maintenance Planning and Reliability Engineering

Course Outline

✓ 04 DAY FOUR

CPM Scheduling

- ✓ What is Reliability Engineering?
- ✓ Why do I need Reliability Engineering?
- ✓ What are Reliability Predictions?

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Course Outline

✓ 05 DAY FIVE

The techniques used in Scheduling Support.

- ✓ Fault Tree Analysis
- ✓ Event Tree Analysis
- ✓ Reliability Block Diagrams (RBD)
- ✓ Understanding MTBF
- ✓ Understanding HAZOP

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Aug. 30, 2027	Sept. 3, 2027	5 days	4250.00 $	UAE , Abu Dhabi
May 24, 2027	May 28, 2027	5 days	4250.00 $	UAE , Dubai
Jan. 3, 2027	Jan. 7, 2027	5 days	4250.00 $	KSA , Riyadh
March 15, 2027	March 19, 2027	5 days	4950.00 $	England , London

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