

Maintenance For Technicians Training Program

Technical Proposal

Scope

- **Effective maintenance is critical for ensuring the reliability and efficiency of equipment and systems in any industrial setting.**
- **This training program is designed to provide technicians with comprehensive knowledge and practical skills in various aspects of maintenance, including management, corrective actions, root cause analysis, and maintenance planning and scheduling.**
- **By the end of this program, participants will be well-equipped to perform their maintenance duties with greater proficiency, thereby improving operational performance and reducing downtime.**

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Objectives

The primary objectives of this training program are to:

The objective of this training is to equip technicians with the knowledge and skills necessary to perform effective maintenance activities, improve equipment reliability, and enhance overall operational efficiency.

Course Contents

1. Maintenance Management:

- Introduction to Maintenance Management
- Key Concepts and Principles
- Strategies for Effective Maintenance Management
- Measuring and Improving Maintenance Performance

2. Corrective Maintenance:

- Understanding Corrective Maintenance
- Equipment List: Identifying and Cataloging Equipment
- System and Equipment Coding: Standardizing Equipment Identification
- Policy and Standard Operating Procedure (SOP):
Establishing Maintenance Policies and SOPs
- SMART Corrective Maintenance Work Orders: Creating Specific, Measurable, Achievable, Relevant, and Time-bound Work Orders
- Skill Matrices: Mapping Technician Skills to Maintenance Tasks
- History Log: Recording and Analyzing Maintenance Activities

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3. Root Cause Failure Analysis (RCFA):

- Introduction to RCFA
- Tools and Techniques for Root Cause Analysis
- Conducting Effective RCFA
- Implementing Solutions to Prevent Recurrences

4. Maintenance Planning and Scheduling:

- Pillars of Operation Management: Understanding the Fundamental Elements
- The Difference Between Planning and Scheduling: Clarifying Roles and Processes
- Network Diagram: Visualizing Maintenance Activities and Dependencies
- Target Plan and Cost Profile: Setting Goals and Budgeting for Maintenance
- RACI Matrix: Defining Responsibilities and Accountabilities in Maintenance Tasks

5. Reliability, Availability, Maintainability, and Safety

(RAMS):

- Overview of RAMS
- Measuring Reliability and Availability
- Enhancing Maintainability
- Ensuring Safety in Maintenance Operations

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Who Should Attend

This training program is intended for:

1. Maintenance Engineers and Managers
2. Reliability Engineers
3. Operations Managers
4. Technicians involved in maintenance activities
5. Anyone responsible for maintenance management and failure analysis

Course Duration

The proposed duration for the training program is 8 days, with each day comprising 5-6 hours of training, including breaks.

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