Top Maintenance and Reliability Techniques

The management community is now more aware than ever of the life-cycle costs of equipment because of decreased revenues brought about by reduced commodity prices. The difficulty for maintainers is to provide the same standards of equipment availability, safety, and dependability on a reduced budget. The practical methods and techniques that organizations must implement to reduce their equipment life-cycle costs are covered in this Maintenance Engineering training course on Maintenance & Reliability Best Practices.

In order to guarantee the dependability, integrity, and durability of the physical assets throughout their life cycle, the most efficient techniques, policies, tactics, and practices are highlighted in this Maintenance Engineering training course.

This training session on Course N Carry will emphasize:

- Costs, Capital, Profit, and Return on Investment as Financial Concepts
- The Asset Healthcare Model
- Impact of Equipment Degradation and Failure on Costs
- Preventive Techniques and Resources to Lower Maintenance Expenses
- Analysing Failures to Concentrate Cost-Reduction Activities
- Using Work Management to Increase Resource Efficiency

Introduction

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Objectives

Upon completion of this training program, you will be able to:

- Recognize the meanings of ROI, expenses, capital, and profit.
- Recognize the financial implications of unexpected failure
- Adopt preventative measures to lower maintenance expenses in the future.
- To decrease recurrent failures, organize and analyse failure data.
- Determine the underlying reasons behind unexpected failure costs.
- Lower resource expenses by implementing effective work management techniques.

Training Methodology

The Top Maintenance and Reliability Techniques training course from Maintenance Engineering is taught through a mix of instructor-led topic sections and group discussions. Each delegate receives a laptop pre-loaded with examples and practical exercises, which significantly enhances this training session. Following the training session, each delegate has access to the templates, examples, and exercises as a resource for additional reading, learning, or practice. This guarantees a high degree of retention of information and skills.

Organizational impacts

The company will

- Learn where the money for upkeep comes from.
- Be able to concentrate its efforts on the activities that cause the most expenses
- Compile and arrange failure data in an insightful manner.
- Remove the flaws that are causing expenses.

Personal Imapct

The individual will be capable of:

- Recognize the actions and situations that are causing expenses.
- Recognize how a significant contributor to the cost equation is poor dependability.
- Put in place a PM program to increase dependability.
- Apply root cause analysis to get rid of errors

- Use best practices in work management to guarantee flaw discovery and remedy as soon as possible.

Who should attend?

It is strongly advised that personnel involved in maintenance, reliability, engineering, and technical support, as well as management and leadership, take this Course N Carry Maintenance Engineering training course. **Moreover, encompassing:**

- Organizers
- Supervisors
- Engineers
- Engineers of Reliability
- Managers and Leaders of Maintenance Teams
- Managers and Leaders of Operations Teams

Course Outline

Day 1

Introduction to Equipment Life-Cycle Costs

- Definitions of Reliability, Maintenance & Asset Management
- The Return on Investment, Capital, Profits, and Costs Concept
- The Model of Asset Healthcare
- Important Domains for Asset Management
- Unrestricted Conversations

Day 2

Cost Elements and Reasons

- The True Price of Unexpected Failure
- Standards of Asset Performance
- The Types of Asset Degradation and Failure
- The Nature and Causes of Asset Degradation and Failure
- The Impact of Asset Degradation: Its Costs and Risks

Day 3

Getting Rid of the Cost and Degradation Cycle

- Scheduled Upkeep
- Predetermined Maintenance Periods
- Intervals for Maintenance Based on Conditions
- Putting Optimised PM Programs in Place
- Making the Most of Spares to Help the Maintenance Program

Day 4

Cost Saving by Eliminating Defects

- Gathering and Analysing Failure Data
- The Effects of Intermittent vs. Chronic Failures
- Enhancing Concentration using Pareto Analysis
- Put losses into terms of the life cycle.
- Strict Root Cause Analysis Methods
- Talk about Tools and Templates to Help with Analysis

Day 5

Management of Work transforms Strategy into Practice.

- Identification of Work and Reporting of Defects
- The Value of Backlogs
- Organizing for Dependability and Quality
- Planning for Capacity
- Organizing for Effectiveness
- Logistics and Preparation for Work
- Lists and Useful Information Workplace Quality Assurance
- Final Discussion and Evaluation