



External Training Course

Maintenance Strategy Development and Cost Effective Implementation

From 15 Jan. To 19 Jan. 2024

From 19 Feb. To 23 Feb. 2024

From 29 Apr. To 03 May 2024

**Marriott Marble Arch Hotel
London - UK**

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INTRODUCTION

In the competitive environment of today, availability and reliability of assets is more than ever an important issue. Maintainers are faced with the challenge to deliver the same levels of equipment safety, reliability and availability with smaller budgets. Therefore, maintenance & reliability best practices are critical for every organization who would like to be best in class. Apart from maintenance & reliability engineering, outsourcing maintenance activities to contractors could contribute to this significantly. Because sometimes external parties are better suited to improve the performance than you or you simply do not want to do it yourself. This highly-interactive Maintenance Strategy Development and Cost Effective Implementation training course emphasizes the most effective strategies, policies, tactics and practices that are needed to ensure the reliability, integrity and durability of the physical assets through their life-cycle. This training course will ensure that you understand how to decide rationally what maintenance activities to outsource and what not, how to select the best maintenance contractor and how to evaluate the delivered performance of all parties involved. Maintenance contracts used in several branches will be discussed. You will have the opportunity to discuss the best practices used in your organization. Through a combination of formal lectures and group work, you will leave the course with the tools to improve your processes and way of working. The first of this workshop delivers many practical and new Maintenance and Reliability Best Practices concepts and tools. You will discuss these concepts and practice using practical tools in case studies and discussion groups. Then helps you decide in a rational way which activities are best done with internal resources and which are best outsourced. Tools and techniques are introduced which will help you ensure that outsourcing contracts are comprehensive and avoid the common pitfalls. The costs associated with equipment downtime and reduced production can be significant. Learning how to effectively manage all aspects of

your industrial facility is a must. The focuses of this Maintenance Strategy Development and Cost Effective Implementation training course are highlighted as follows:

- Financial concepts of costs, capital, profit and return on investment.
- The model for asset healthcare.
- Cost impact of equipment failure and degradation.
- Proactive practices and tools to reduce maintenance costs.
- Failure analysis to focus cost reduction efforts.
- Work management to improve resource efficiency.
- Understanding Outsourcing considerations.
- Contracting types, incl. Service Level Agreements (SLA's).
- Key Performance Indicators (KPI's) to monitor performance.
- Developing Contracts – The Contracting Cycle.
- Negotiating skills.
- Continuous improvement and performance management: how to evaluate the performance with all parties involved.

OBJECTIVES

By the end of this Maintenance Strategy Development and Cost Effective Implementation training course delegates will be able to:

- Understand the concepts of costs, capital, profit and ROI.
- Understand the cost impact of unanticipated failure.
- Apply proactive policies to reduce future maintenance costs.
- Structure and analyse failure data to reduce repetitive failures.
- Identify root causes of unanticipated failure costs.
- Reduce resource costs through efficient work management practices.
- Decide rationally what maintenance activities to outsource and what not.
- Use the features, functions and benefits of lean maintenance contracts.
- Use the most applicable type of maintenance contracts (incl. Service Level Agreements) and when/how to apply them.
- Define service levels and monitor the contractor performance.
- Develop and negotiate a maintenance contract.
- Recognize the pitfalls.
- Evaluate the delivered performance of all parties involved.
- Implement maintenance contract management.

Training Methodology

This Effective Government Relations for the Oil & Gas Sector training course will utilize a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. The daily workshops will be highly interactive and participative. This training course will be based on interactive exercises and case studies drawn from a wide range of countries and situations. One day of the course will be dedicated to a practical business game based on a realistic scenario.

Course Agenda & Outline

Equipment Life-cycle Cost Introduction:

- Definitions of Reliability, Maintenance & Asset Management.
- The Asset Healthcare Model.
- Key Areas of Asset Management.

Cost Factors and Causes:

- The Real Cost of Unanticipated Failure.
- Asset Performance Standards.
- The Forms of Asset Failure and Degradation.
- The Causes and Nature of Asset Failure and Degradation.
- The Effects, Cost and Risks of Asset Degradation.

Breaking the Cycle of Degradation and Costs:

- Programmed Maintenance.
- Programmed Maintenance Intervals.
- Condition-based Maintenance Intervals.
- Implementing Optimised PM Programs.
- Optimizing Spares to Support the Maintenance Program.

Work Management converts Strategy to Practice:

- Work Identification and Defect Reporting.
- The Importance of Backlog.
- Planning for Quality and Reliability.
- Capacity Planning.
- Scheduling for Efficiency.
- Work Logistics and Preparation.
- Checklists and Practical Aspects Work Quality Control.

Outsourcing Considerations:

- Introduction.
- Asset Management - The Business Impact of Maintenance.
- Considerations in Outsourcing Maintenance – What to outsource and what not?
- Risks Involved.

Maintenance Contracts:

- Maintenance Contract Types.
- Parties Involved.
- The Tendering Process – Modern Ways of Tendering.
- Choosing the Right Contractor.
- Costing the Service.
- Defining Key Performance Indicators to Monitor the Performance of All Parties Involved.
- Use of Balanced Scorecard with Performance Contracts.

Developing the Maintenance Contract:

- Vendor Management.
- The Contracting Cycle.
- Assemble a Team.
- Assess, Determine and Specify the Required Service Levels.
- Writing the Contract – Contents of a Maintenance Contract.
- Implementing Contract Management – How to make it work? (Performance Management).
- Periodic Evaluation & Improvement.

Grounding and Negotiating the Contract:

- Expectations about Availability, Reliability and Costs.
- The Extensive Preventive Maintenance Schedule – “tricks” of Maintenance Contractors.
- The Seven Steps to Develop a Risk Based Maintenance Concept.
- Using the Maintenance Concept to Negotiate More Effectively Lean Maintenance Contracts.
- Negotiating the Contract – negotiation ploys.
- Negotiating the Contract – negotiation tactics.
- Negotiating Tips.