

# H S E

HEALTH

SAFETY

ENVIRONMENT



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## **Occupational Health & Safety in Machining Work & Valve Maintenance**

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**Duration:** 5 Days



### **Introduction:**

Investing effectively in maintenance can help you to reduce the risk of HSE incidents, mission failures or loss of production due to equipment unavailability. The structure and content of this course will help the candidates formulate action plans that can significantly improve safety, production and mission success. This comprehensive course will enable the candidates learn

ways to improve the performance of their plant as a result of better reliability and availability of their facilities. Through this course, you will learn how effective maintenance is the key, not merely more maintenance. In this course, you will learn a logical and structured approach to achieve your organization's objectives.

In fact, the implementation of the results of analysis is the key to reaping the benefits. Analysis is the easy bit, implementing the results always poses challenges. So you will see how to grind away at the hard parts ? writing new maintenance routines, scheduling work, then doing it on time, recording history and hopefully, getting rewarded. Finally, the course will explore how to implement change successfully. To reach this end, the candidates will understand critical success factors, change management, the importance of good communication

and how to track progress. Sustained improvement needs a process to hold the gains. This course will address issues such as:

- The reasons and causes behind having safety or environmental incidents
- The reasons and causes behind facing mission failures or production shortfalls
- The relationship between maintenance costs and system availability
- How to improve operational performance and reduce maintenance costs at the same time

## Who Should Attend?

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EH&S Personnel, Manager, Supervisors, Engineers, Forman Mechanical Maintenance, Maintenance Personnel, Logistics Specialist, Technicians, Design Engineers, Project Engineers, anyone interested in valve maintenance and machines safety

## Course Objectives:

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### By the end of this course delegates will be able to:

- Manage risk through effective occupational health & safety management system
- Acquire latest safety techniques in machining work & valve maintenance
- Advance inspection & maintenance in machine shop activities
- Discuss quantitative and qualitative risks

- Explore human failures they are more difficult to manage
- How to proactive and reactive ways to improve equipment reliability
- Learn about Root Cause Analysis (RCA)
- Have an understanding of where and how to apply RCA
- Learn how Reliability Centered Maintenance (RCM) can help plan work and improve equipment
- Have a good understanding of RCA and RCM and know where to apply them

## **Course Outline:**

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- Introduction and objectives
- Factors affecting system operational success
- Quantitative risk
- Performance measurement
- Data recording
- Human factors
- Human error and its causes
- Learning from failures
- Performance measurement
- Problem solving process

- Root Cause Analysis (RCA)
- Planning for success
- Understanding the nature of failure
- RCM principles and methodology
- Task?bundling
- Preventive maintenance routines and maintenance management systems
- Scheduling
- Work execution
- Compliance
- Reward systems
- Performance monitoring
- Implementation
- Reporting results
- Lateral learning
- Holding the gains
- Problem solving process
- Course summary and open discussion