Manufacturing Technology Training
An IMTMA initiative

Importance of Safety in Maintenance
Date : 23 September, 2025
Venue : IMTMA Technology Centre, Pune

INTRODUCTION

Maintenance is not only necessary to ensure reliability of technical structures or productivity of the company, regular maintenance has an important role in providing **safer and healthier working conditions** as well. Lack of maintenance or inadequate maintenance can cause **serious and deadly accidents or health problems**.

Maintenance itself is a high-risk activity. It is estimated that around **10-15% of all fatal accidents and 15-20% of all accidents** in the Industry are related to **maintenance operations**. Scientific studies indicate that occupational diseases and work-related health problems (such as hearing problems, musculoskeletal disorders etc.) are also more prevalent among workers involved in maintenance activities.

Maintenance operations typically include both disassembly and reassembly, often involving complicated machinery. This can be associated with a greater risk of human error, increasing the accident risk. Working under time-pressure is also typical for maintenance operations, especially when the shutdowns or high-priority repairs are involved.

In view of the above it becomes important to train the Maintenance persons to understand the risks that are involved in the work they carry, what are the techniques that can be used to mitigate the risks and the appropriate PPEs that are required to be used during a specific maintenance activity.

FOCUS AREAS

- Understanding the specific hazards related to Maintenance activity
- Identification of relevant PPEs and their Maintenance
- Techniques used to test, inspect and maintain various tools required for carrying out Maintenance
- Documentation that proves useful to improve Safety in Maintenance
- Instil confidence in the Maintenance Personnel to carry out their activity without fear of getting injured and still keeping the Mean Time To Repair (MTTR) under control
- Help organizations to achieve their Safety Targets (Zero fatality, Zero Lost Work Day case etc.) thereby avoiding any costly hospitalization and unnecessary civil / criminal litigations

KEY TAKE AWAYS

- Working with Electricity – PPE requirements, Inspection of PPEs, Inspection of Test instruments, Lock out requirements and Lock out Process
- Working at Height – PPE requirement, Inspection of PPEs, Ladders and their inspection, Anchorage points
- Working in Confined Space – Identification of Confined space, Examples of Confined space, Hazards in Confined space, PPEs requirement and Work Permit
- Working with Robot – Potential Hazards and their mitigation
- Working under heavy items - Potential Hazards and their mitigation
- Working in Fuel Yard - Potential Hazards and their mitigation
- Lifting Loads by Rigging – Hoisting and Rigging Hazards, Elements affecting the Hoisting safety, Factors affecting the lifting capacity, Slings and Hoisting hooks, Shackles and Eye Bolts
- Working with Chemicals – Hazards while working with chemicals, PPE requirements, Step-by-Step description of Material Safety Data Sheet (MSDS)
- Welding and Gas Cutting – Potential Hazards, PPE requirements

PARTICIPATION FEE

Rs. 6600/-
+18% GST
IMTMA Members/ Micro Companies/ Individuals/ Educational Institutions / Students/ IMTMA Non Members/ Others

USD 260/-
Overseas Participants

Group Concession : 10% for 3 to 5 and 20% for 6 and more delegates being nominated from the same company

PARTICIPANT PROFILE

Safety Managers and supervisors, Maintenance Managers, Engineers, Supervisors and Senior Technicians involved in Maintenance, Process Control and Improvement activities.

FACULTY

This programme will be conducted by **Mr. Shacheendra Bapat**

Mr. Shacheendra Bapat is a B.E. in Electronics and Telecommunication from Pune University and an industry expert with over 30 years of experience in Automotive Manufacturing industry. He has conducted several training programmes on Automation, Maintenance, Safety and Productivity related subjects. Mr. Bapat is former Asst. General Manager – Manufacturing and Head of Maintenance at GM's Talegaon Vehicle Assembly Plant.

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REGISTRATION : Prior registration for participation is necessary. Number of participants is limited and will be accepted on 'First Come First Serve' basis. A Certificate of participation will be issued to participants.
Important Information : Participation fee includes, course material, working lunch and tea / coffee. Interested companies are requested to register online by clicking on 'REGISTER' button and by filling up the nomination authority and participant's details in specified form.