

Total Productive Maintenance (TPM) Implementation Steps and Process Improvement Tools

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Overview

TPM originated in the Japanese manufacturing industry and was a key factor in the rise of the Japanese automotive industry. It is based on the implementation of basic yet essential and logical methods, utilising teamwork as a core discipline. This course examines the advantages and disadvantages of TPM, with a focus on the practical aspects of implementation. The focus will be on how to make TPM a practical and living tool.

Delegates will cover the fundamentals thoroughly by practising the key steps in workshop exercises. The process and benefits of TPM will be explored in depth, along with its pitfalls and requirements. Delegates will focus on understanding and managing this technique, defining how to achieve significant returns for organisations that implement it, and how to avoid potential problem areas.

Course Objectives

The objective of the course is to provide an integrated program covering the key areas of Operations & Maintenance Management, specifically planning, Scheduling, and Total Productive Maintenance. The program aims to provide an overview of methodology and practice, enabling delegates to stay updated on current approaches, understand current issues, and apply relevant thinking and techniques in the context of their own organisations.

Upon successful completion of this course, the delegates will be able to:

- Learn and practice the fundamentals of TPM and understand the process of planning and implementing TPM
- Identify the pitfalls of TPM and develop strategies to avoid them
- Understand how to keep TPM fresh, practical and current and see how to integrate TPM with EAM/CMMS



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Course Content

- Introductions & Overview of the TPM Program
- Implementing TPM.
- An overview of Operations Management.
- Linkages between Operations strategy and corporate strategy.
- Practical Operations Management issues
- The roles of Planning, Scheduling, and TPM.
- Operational Process design and management.
- Management for lean operations.
- Key steps in developing and implementing TPM
- The five lean principles and the seven wastes
- Value Stream Analysis.
- Planning and scheduling Operations
- Maintenance management and engineering.
- Impact on HSE.
- Lifecycle management
- Preventative replacement and maintenance.
- Reliability & replacement theory and practice.
- Computerised maintenance management.
- Planning and Scheduling.
- Why Projects, Plans, and Schedules Fail
- Critical Path Analysis and PERT.
- Network diagrams.
- Resource Allocation.
- Crashing activities to speed up projects.
- Meaning and origins of Total Productive Maintenance.
- OEE and Lifetime costs
- The five pillars of TPM.
- Autonomous Maintenance
- Condition Appraisal.



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Targeted Audience

This course is intended for managers, supervisors, engineers, senior analysts, specialists and senior technicians involved in TPM implementation and practice. TPM teams typically include operations, maintenance, engineering, technical services, reliability, planning, QA, inspection, spares management, procurement, and utilities.

Course Methodology

Facilitated by an experienced professional trainer, this training course will be conducted as a highly interactive workshop session. A variety of training methodologies and facilitation techniques will be employed before and during the course, as applicable. These methods are aimed at enhancing individual and group interaction while maximising learning. Some of these methods are:

- Online Pre-post Test
- Colourful Visual Aids
- Gamification
- Self-Assessment Instruments
- Simulations
- Case Studies
- Videos
- Group Exercises & Discussions
- Role plays
- Indoor & Outdoor games

