



# Total Productive Maintenance Overview (TPM)



## Introduction:

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In today's manufacturing industries, more and more companies are seeking ways to improve their plant's performance through the application of continuous improvement tools such as TPM. Although it originated from Japan, TPM is not culture bound but rather its principles can be applied to any plant as long as the people accept TPM as a way of life. TPM improves the manufacturing process through the utilization of employee involvement, empowerment and closed loop measurement of results. Learn and apply the basic principles of TPM and the correct way of implementation as patterned from Japan Institute of Plant Maintenance (JIPM).

This course is about understanding what it takes for an industry to achieve World Class Structure by understanding the process of TPM and what TPM can do with the bottom line if correctly applied to the workplace. It will provide a clear structure on what Total Productive Maintenance (TPM) is and how to implement it successfully right the first time around. Know the pitfalls of TPM and why many have failed in their implementation and most importantly learn from them.

## Who Should Attend?

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TPM office staff, TPM facilitators, TPM managers, OE champions, Maintenance managers, engineers & planners, reliability and maintenance engineers, facilities and utilities managers, top level maintenance technicians, operations and production managers & engineers, plant engineers, design engineers, reliability engineers & technicians, operators, safety engineers, risk engineers, CMMS and spare parts personnel, safety engineers and anyone who is involved in reliability engineering strategies or methodologies to include design engineers for capital projects engineers

## Course Objectives:

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

- Learn what TPM can achieve to your company if done correctly
- Understand the role TPM Office will play in its implementation on the goals of each TPM pillar
- Know TPM's 12 Developmental Steps and why they should be implemented in sequence
- Understand TPM and RCM which is the best for improvement methodology
- Learn what TPM pillars will bring the most impact to the equipment and why
- Learn why Planned Maintenance should be the strongest TPM Pillar and the role it will play with the Autonomous Maintenance activities
- Understand the common pitfalls in implementing TPM and tips on TPM and how to implement TPM right the first time around
- Know what TPM can and cannot do
- Learn major reasons why many companies fail in their TPM implementation
- Learn why management support is not enough to drive TPM Activities
- Learn what are the requirements for achieving TPM Excellence

## Course Outline:

**TPM Introduction**

- How TPM originated from Japan
- Lessons learned from the Japanese

### TPM Basic Concept

- Establishing Basic Equipment Condition
- Basic Concept of TPM
- TPM and RCM Strengths

### TPM 12 Developmental Steps

- TPM Preparatory Stage
- TPM Implementation – 8 Pillars of TPM
- Stabilization Stage
- Function and Goals of Each Pillar
- Role of everyone in TPM
- TPM Master Plan of Implementation

### TPM Pitfalls

- What TPM can and cannot do?
- Mistakes in TPM implementation
- Reasons why many industries fail in their TPM implementation

### Implementing TPM

- Key Points in Implementing TPM
- Machine Ranking and Selection of
- Manager's Model Machine
- KPI's Selection for Each Pillar
- Setting TPM Year End Goals

### Equipment Losses

- Function Loss and Reduction

- Improving Set-up and Conversion Time
- Start-up Losses
- Understanding Minor Stoppages
- Understanding Design Speed Loss
- Quality and Rework Losses
- Interaction, question and answer

### **Understanding OEE**

- Relationship Between Losses and OEE
- Understanding Availability
- Performance Rate and Quality Rate

### **JIPM Certification, Criteria & Awards**

### **Case Study of TPM**