



## CQE Training & Consultancy Plt (Reg No. : LLP 0003668 LGN)

Registered Office : No. 46, Lorong Bintang, Taman Tasik Permai, 34000 Taiping, Perak. Malaysia.

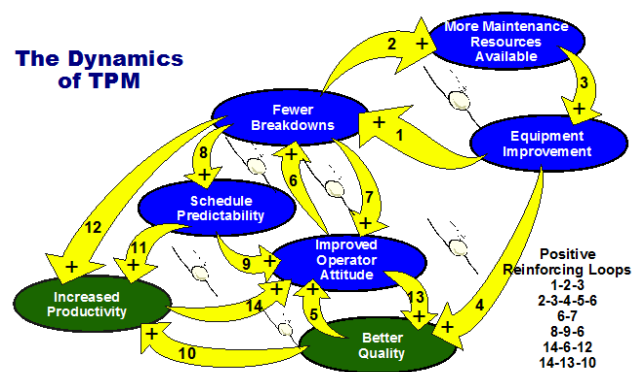
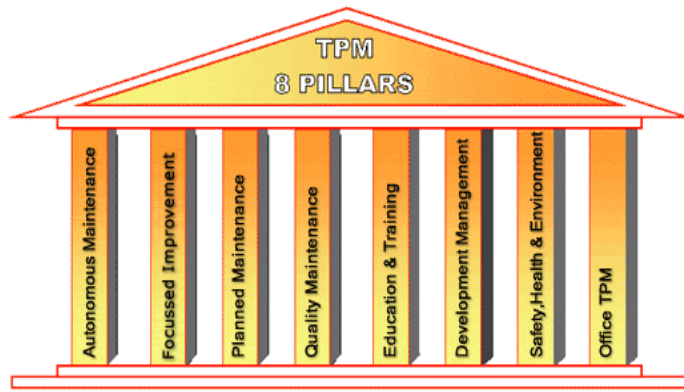
Operating Office : No. 85A (1<sup>st</sup>. Floor), Jalan Barrack, 34000 Taiping, Perak. Malaysia.

T : +605-805 2722 F : +605-805 2721 M : +6012-505 2720 / +6012-502 2720

E : [cqetraining@gmail.com](mailto:cqetraining@gmail.com) or [kuangkh@cqetraining.com](mailto:kuangkh@cqetraining.com) W : <http://www.cqetraining.com> B : <http://cqeblog.blogspot.com>

# TOTAL PRODUCTIVE MAINTENANCE (TPM) (PUBLIC/IN-HOUSE TRAINING PROGRAMME)

SBL  
Scheme



## Introduction

The evolution of machinery maintenance has progressed from Run to Failure then to Preventive Maintenance, Predictive Maintenance and finally to **Total Productive Maintenance (TPM)**, which forms an integral part of a Reliability Based Maintenance. Proper implementation to machinery maintenance can result in substantial savings for an organization. This programme is designed to provide in-depth understanding of the Total Productive Maintenance concepts which uses reliability analysis as an important tools for machine diagnosis and the predictive of maintenance requirements. The **Overall Equipment Effectiveness (OEE)** index has been developed by the JIPM (Japan Institute for Plant Maintenance). It is one of the pillars within the TPM method. The method distinguishes 6 loss types, and 3 categories: **availability, speed losses and quality rate**. The method's strength is that it makes the losses more transparent, and from experience we know that a good analysis provides a very good "picture" of the actual situation, which helps to determine both short and longer term improvement activities, including quantified benefits from each of the improvements.

## Learning Outcomes/Objectives

Also available as  
in-house programme

At the end of this workshop, participants will be able to cope and excel with the following knowledge and skills :-

- ✓ Be updated of the different types of Maintenance Methodology,
- ✓ Ensure the right implementation of Total Productive Maintenance (TPM),
- ✓ Assess the needs of Predictive and Condition Based Maintenance to minimize cost and improve production,
- ✓ Reduce waste and lost to increase Total Plant Effectiveness.
- ✓ Acquire knowledge on how **Overall Equipment Effectiveness (OEE)** can be established and calculated.



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## COURSE CONTENTS

### Day 1

#### Overview

- ✓ *Video on TPM - Challenging The Limits*
- ✓ What is Total Productive Maintenance ?
- ✓ The 6 Big Losses
- ✓ Who makes TPM activities happen

#### Autonomous Maintenance

- ✓ What is Autonomous Maintenance ?
- ✓ Roles of Maintenance and Engineering personnel
- ✓ Roles of Technicians and Operators

#### Keys To Success In Total Productive Maintenance

- ✓ Steps involve in Total Productive Maintenance
- ✓ Basic Tools
- ✓ The Excellent Shopfloor
- ✓ Equipment Life Cycle and Maintenance Activities

### Day 2

#### Overall Equipment Effectiveness (OEE)

- ✓ Availability
- ✓ Performance Rating
- ✓ Quality Rating
- ✓ Calculating OEE

#### Planning for Total Productive Maintenance

- ✓ Planning for Implementation
- ✓ Rollout of Plant Maintenance Plan

#### Training for Total Productive Maintenance

- ✓ Related skills for operators maintenance and maintenance technician skills
- ✓ Training Plan
- ✓ Overcoming barriers to successful implementation

#### Summary

- ✓ *Video on The 12 Steps to Implements TPM*

## Who Should Attend

This course is designed for maintenance personnel at all levels in a business organization.

## Duration

2 Days

## Training Methodology

This workshop is highly participatory, incorporating lectures, discussion, practical exercises and video showing.

### TPM : THE EIGHT PILLAR / PROGRAMMES

