



Building Manufacturing Excellence
and World Class Manufacturing

Certification Program

Certified TPM Practitioner:

In building Lean Enterprises





TPM was developed by **Seiichi Nakajima** between 1950s to 1970s in Japan to improve the effectiveness of the Production setup. With a successful **TPM** program, many organizations have been very **successful** in reducing the downtime to a very great level.

Certified TPM Practitioner

(Certified Total Productive Maintenance Practitioner)

In building Lean Enterprises

This **Total Productive Maintenance** or this **TPM** Certification program is designed to give in depth knowledge on **implementing** TPM in a plant, as an approach to build Lean Enterprises. This program is designed to be aligned with ASQ, JIPM, RUIE, and other leading Industrial bodies. This program starts from the basic concepts of TPM and then progress towards discussing all the necessary theories and methodologies required to work, as an **Expert** in TPM or as a professional TPM Practitioner.

This course is **exclusively** made for plant engineers, production managers, production executives and supervisors, lean experts, and to others working in the Manufacturing sector. Further it is encouraged for students, and to others interested over **TPM** to enroll with this program.

We have used an **innovative** visual-audio mixed teaching technique in delivering this program to make it **interesting** for all the learners. Once the-

-course is completed, we have made arrangements for you to obtain two Certificates. One from our hosting partner and other is the **official Certificate** issued by us, can be used with your **Continuous Professional Development**. End of the course, we expect the learner should be able to;

- Identify the need for **TPM** and Implement TPM in a factory environment.
- Work on establishing the **Eight pillars** of TPM and/or the Five key elements of TPM.
- Implement **countermeasures** to increase Time Between Failures, and reduce the time taken to any Repairs.
- Build a **Spare Parts** Inventory management System using Excel.
- Understand the different **types** of **Maintenance** such as Planned, Unplanned, Corrective, Condition based, RCM, and others.
- Integrate **SMED** to the production line.

- Identify the **Six big losses** and the associating sub losses in any production setup.
- Calculate the Availability losses, Performance losses, and Quality losses and compute the **OEE** of any production setup.
- Use the Kurt Lewin's Change model to separate the **13 steps** of Implementing TPM to three phases or stages and **Implement TPM** in a very Systematic way.
- Create **Autonomous** maintenance plans for Level 1 of maintenance and Create **Planned** maintenance plans for periodic maintenance.
- **Standardization** of maintenance procedures.
- Identify the **roles** of the **Individuals working** in a Manufacturing plant.
- Identify and categorize the **levels** of different maintenance based on cost, complexity, etc....
- **Analyze** and build a balance on the **Costs** associating with maintenance and production.
- Involve the **5S** i.e. **6S elements** with the **TPM** program to enhance the outcomes, and etc....

Why follow this course?

It is proven that knowledge on Manufacturing and Operational Excellence is highly useful for any **working professional** to achieve continuous professional development in his or her career. The concepts you'll learn in this course is applicable to **industries** such as; Industrial manufacturing, Garment, Automobile, Heavy machinery, Food production, packaging, and etc....

The management of **leading organizations** as listed below and from more have recommended their fellow employees to follow our Training programs.





What you will Learn?

This course starts with the basics and then progress towards advanced concepts of Total Productive Maintenance. The course content is listed below;

Section 1: Introduction to TPM

- 1.1 Introduction to the course.
- 1.2 What is TPM and the fundamentals of it.
- 1.3 Role of a TPM Practitioner.

Section 2: The Pillars and the Elements of TPM

- 2.1 The Eight Pillars of TPM.
- 2.2 The Five key elements of TPM.

Section 3: Building a TPM organization

- 3.1 Managing important activities in a TPM organization.
- 3.2 Creating a Spare parts management system with Excel.
- 3.3 Different types of Maintenance.
- 3.4 SMED (Single Minute Exchange Die).

Section 4: TPM and OEE

- 4.1 The Six Big losses in Manufacturing.
- 4.2 Calculating OEE in a structured manner.
- 4.3 Automating the OEE calculation with Excel.
- 4.4 The World Class Manufacturing standards.

Section 5: Implementing TPM

- 5.1 The basics of Implementing TPM.
- 5.2 Using the Kurt Lewin's model with TPM.
- 5.3 TPM Implementing – Stage 1 (Unfreeze stage).
- 5.4 TPM Implementing – Stage 2 (Change stage).
- 5.5 TPM Implementing – Stage 3 (Refreeze stage).
- 5.6 Creating a TPM Implementation master plan.
- 5.7 Creating Autonomous and Planned maintenance plans.
- 5.8 Maintenance standardizing.
- 5.9 Equipment Life cycle optimization and creating robust systems.
- 5.10 TPM Implementation Audits.
- 5.11 Post-TPM Implementation Audits.

Section 6: The Role of different Individuals in TPM organizations.

- 6.1 The Role of the Machine operators or the Production staff.
- 6.2 The Role of the Technicians and the Maintenance Engineers.
- 6.3 The Role of the Maintenance Manager
- 6.4 The Role of the other Leaders in the organization.

Section 7: Levels of Maintenance and the Cost analysis

- 7.1 Identify different Levels of Maintenance.
- 7.2 Maintenance Cost analysis.

Section 8: Lean Tools needed to solve Problems in a TPM environment

- 8.1 The Cause-Effect diagram for problem solving.
- 8.2 The Why-Why analysis.
- 8.3 A3 problem solving and report writing.

Section 9: Using 5S (i.e. 6S) elements for TPM

- 9.1 The concept of 5S for TPM.
- 9.2 How to achieve Sort (Seiri 整理).
- 9.3 How to achieve Set in Order (Seiton 整頓).
- 9.4 How to achieve Shine (Seiso 清掃).
- 9.5 How to achieve Standardize (Seiketsu 清潔).
- 9.6 Sustain (Shitsuke しつけ) the 5S System.
- 9.7 Achieving Plant Safety.
- 9.8 Involving the 5S elements for the TPM process to increase the productivity.

Section 10: The benefits of TPM

- 10.1 Benefits of implementing TPM in a Factory.

Section 11: What is Lean Manufacturing

- 11.1 Introduction to Lean Manufacturing and its fundamentals.

Section 12: The Final Section

- 12.1 How to take the Final Exam and obtain the official TPM Certification.

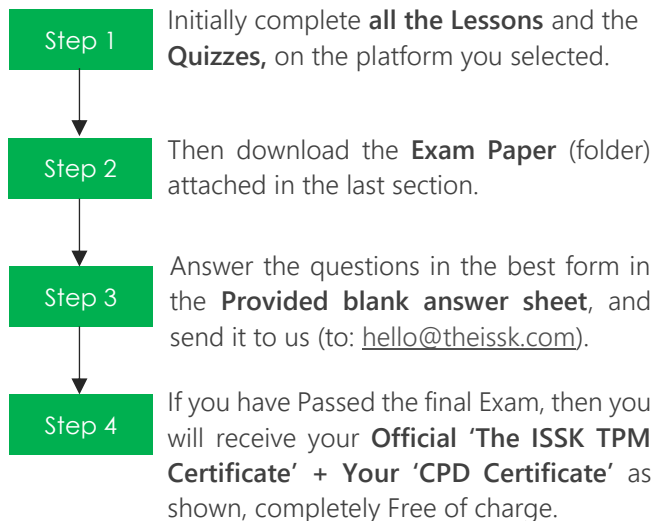
This course is designed to fit with any industries and involving **practical** scenarios to make things more understanding for the students. And this course discusses on how to bring balance on maintenance. Too little or too much **maintenance** is always a problem for Lean enterprises. Further this course deeply discusses how the 5S i.e 6S elements could be used with the TPM process and operations in any modern Manufacturing organization.

More or less our course developers have developed this course to provide the intended **students** with a comprehensive understanding on TPM whether the student is from a **technical** background or not. The students do not need to have high level of technical knowledge to enroll with this program.



Obtain your Certificates

The **official** The ISSK certificate will be issued only if the student has successfully completed this course and have passed the **Final Exam**, and at this stage the student becomes entitled to receive their CPD certificate from our CPD partner. You may follow the following procedure to obtain your official Certificate.



The e-versions (PDF files) of the Certificates will be issued completely **Free of charge** and whoever obtains it will become eligible to receive the **Printed version** of the Certificates. Students will need to request the printed versions or the certificate pack separately bearing the shipping cost.

Any of the **certificates** issued by us can be verified by sending the authorizing ID of the certificate to the mailing address, certification@theissk.com. And the **CPD certificate** can be verified from the **website** of our CPD partner. A sample of the CPD Certificate can be **downloaded** by clicking our CPD partners logo from below.



Demonstrate your skills with your globally recognized CPD Certificate from Open-CPD.

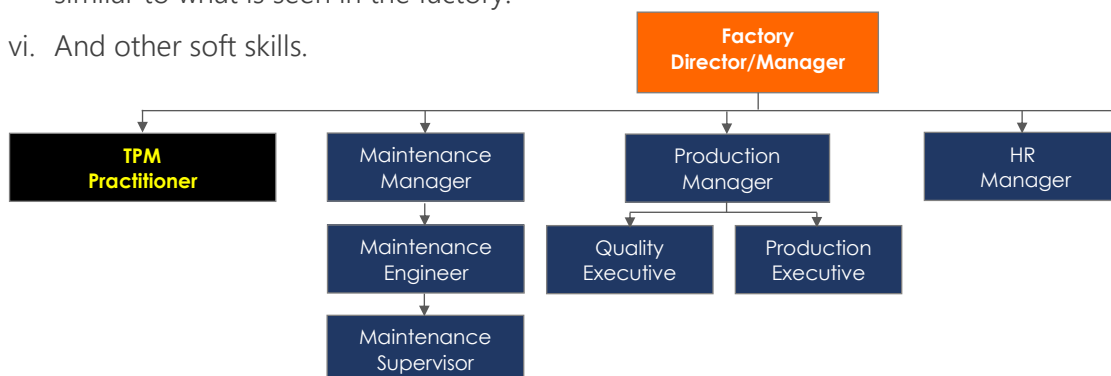


Role of a TPM Practitioner

A **TPM** (Total Productive Maintenance) **Practitioner** will usually be responsible in implementing TPM on any production system and sustain it. Usually, this role is similar to the change agent, more or less in many organizations the **TPM practitioner** is an independent role as illustrated below.

In some cases, the TPM Practitioner may be a senior team member in the Maintenance department, or in some cases will report to the Lean Manager or the Continuous Improvement Manager. For someone to take in charge of the **TPM implementation** many organizations will prefer a candidate having;

- Having an academic Diploma, HND, or Degree in Mechanical, Electrical, or Mechatronics Engineering. Some organizations may prefer a person having completed vocational training.
- Few years of experience working in managing or supervising Maintenance activities.
- Plenty of knowledge over Equipment related Maintenance carried out in Factories.
- Have completed a Training on TPM, and TPM implementation.
- Familiar about Production operations that is similar to what is seen in the factory.
- And other soft skills.



In many cases it is **recommended** for most of the, executive, or managerial level roles working related to **production** in the factory to complete a training on TPM, some organizations make it a mandatory requirement for such personals.

The person responsible in Managing TPM activities in a factory is a **highly** respected and recognized individual provided with a good **salary** and other benefits. Therefore, we welcome you to enroll with this TPM program and own that status.

Hurry! Obtain your The ISSK TPM Certification + your Globally recognized CPD Certificate with a 30-Day Money back Guarantee, **via**



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