

SPC consulting group

TPM

TOTAL PRODUCTIVE MAINTENANCE

Objective:

The participants will be able to standardize criteria according to TPM concepts and best practices.
Also, the participants will be able to explain how education and training supports the goals of TPM.

Prerequisites:

- A general knowledge of the manufacturing and maintenance processes.

Duration:

16 hours

TPM Introduction

- JIPM (Japanese Institute of Plant Maintenance) concepts, bases and terminology

Lean manufacturing

- History
- Model
  - + Correctly specify value for the customer
  - + Identify the value stream and remove waste
  - + Make the product flow, so the customer can pull
  - + By striving towards perfection, simplicity
  - + Kaizen

TPM

- History
- 8 pillars model
  - + Education and training
  - + Autonomous maintenance
  - + Planned maintenance (TBM, CBM, inspection)
  - + Focused improvement
  - + Early/equipment management (RCM)
  - + Quality management
  - + Safety health environmental conditions
  - + Administrative & office TPM

Understanding TPM KPI's

- OEE
- MTBF
- MTTR

TPM 12 step approach

- Preparation
  - + Step 1 Declaration by management
  - + Step 2 Introductory education and campaign
  - + Step 3 TPM organization and pilot activity
  - + Step 4 Setting basic policy and target
  - + Step 5 Master plan for implementation
- Kick off
  - + Step 6 Kick off
- Implementation
  - + Step 7 Improving production efficiency
  - + Step 8 Autonomous maintenance
  - + Step 9 Planned maintenance
  - + Step 10 Education and training
  - + Step 11 Develop TPM program
- Steady application
  - + Step 12 Total application of TPM

TPM support

- Problem solving
- Visual management
- Standardization
- Kamishibai