

Workshop: Total Productive Maintenance – TPM

Machinery maintenance thanks to operators' involvement

Target group

Employees connected with maintenance and production in a company, leaders, foremen, masters, production managers, process engineers, maintenance management and employees.

Get the practical insight into solving problems and responding to challenges including:

- Low capacity caused by high failure rate.
- Machines and units failing due to improper maintenance.
- Condition of machines depending solely on the maintenance staff.
- Employees do not get involved in the maintenance process concerning the machines they operate.
- System of reporting and fixing failures not functioning properly.
- System of scheduled maintenance inspections not functioning properly.

Overview

Machinery maintenance does not always have to involve heavy investments in new machines and units. Total Productive Maintenance is maintenance service of machines and units executed inside the company by operators and maintenance staff. A set of TPM techniques makes effective maintenance possible even in the case of highly used machinery. Applying the TPM concept guarantees low failure rate of machines and elimination of unplanned downtime in the production process at no great expense. In comparison with a traditional approach in which maintenance is the responsibility of maintenance staff, TPM focuses on engaging mainly operators in activities connected with machinery maintenance.

Benefits for the company

- **Reduced** number of failures and amount of unplanned downtime.
- **Reduced** number of defects related to the condition of the machines.
- **Reduced** number of micro-stoppages.
- **Increased** quality of products and work safety.
- **Optimized** costs.

Benefits for the participant

- **Ability** to indicate root causes of problems arising while introducing TPM.
- **Ability** to calculate and analyze the OEE indicator.
- **Ability** to indicate activities that should undergo automatic maintenance.
- **Ability** to prepare an autonomous maintenance sheet.
- **Ability** to perform an audit of TPM that already exists in the company.

AGENDA

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Module 1	9:00 – 10:30 (10:30 – 10:45 coffee break)	<ul style="list-style-type: none"> ▪ Introduction ▪ Limitations while implementing TPM in companies (group work, discussions) ▪ The essence of the TPM system – prevention (0 breakdowns)
Module 2	10:45 – 12:15	<ul style="list-style-type: none"> ▪ The OEE indicator (the method of calculation, visualization examples from different factories) ▪ The first 3 stages of TPM implementation – thorough clearing, eliminating sources of contamination and autonomous maintenance standards – a presentation supported with several dozen examples from various manufacturing companies
12:15 – 13:00 Lunch		
Module 3	13:00 – 14:30 (14:30 – 14:45 coffee break)	<ul style="list-style-type: none"> ▪ Introduction to TPM audit ▪ Visit at the production hall in order to perform a TPM audit, conversations with operators, focus on how the TPM system in the company is functioning
Module 4	14:45 – 16:30	<ul style="list-style-type: none"> ▪ Group presentations of audit results ▪ Discussion and highlighting weaknesses in the functioning of the TPM system being analyzed ▪ Workshop summary