



Total Productive Maintenance

Boost Capacity and Improve Quality by Increasing Your Equipment's Life Expectancy

What is Total Productive Maintenance (TPM)?

Total Productive Maintenance (TPM) is a process to maximize the productivity of your equipment for its entire life. TPM fosters an environment where improvement efforts in safety, quality, delivery, cost and creativity are encouraged through the participation of all employees. The goal of TPM is to maximize your Overall Equipment Effectiveness (OEE) and to reduce equipment downtime to zero while improving quality and capacity.

Benefits

Typical manufacturing operations have experienced improvements in the following areas in a relatively short period of time (6-12 months) through the implementation of TPM:

- Overall Equipment Effectiveness (capacity) improvement of 25-65 percent
- Quality improvement of 25-50 percent
- Maintenance expenditure reductions of 10-50 percent
- Percent planned vs. unplanned maintenance increase of 10-60 percent

Successes

A tool manufacturer implemented the TPM process to improve the productivity of its equipment. The company was implementing lean, attempting to flow its parts, but was having difficulty because of the poor uptime (capacity) of its equipment. Within 18 months the company saw a 15% increase in equipment productivity. What it was not expecting was a \$1,200,000 reduction in its maintenance budget (repairs, parts), including \$50,000 reduction in oil usage (reduced leaks), \$56,000 reduction in water usage (leaks and modifications) and \$57,000 reduction in contract maintenance.

Course Description

Total Productive Maintenance (TPM)

Learn about:

- How the TPM process is integrated with other Lean tools to increase productivity
- Overall Equipment Effectiveness (OEE) and how it is related to capacity
- The tenfold effect of 5S techniques when applied to your equipment
- The six major equipment-related losses—how to find and eliminate them
- The causes of 75% of equipment breakdowns
- How implementation of the TPM process fosters improvement efforts in safety, quality, delivery, cost, and creativity by employees

Participants will apply the techniques on our simulated equipment in the classroom. By the end of the day, you'll experience how these techniques achieve dramatic improvements in uptime and increased equipment effectiveness.