



Lean further

Duggan Associates

We teach, implement
and help you to achieve
"Operational Excellence"

through a proven methodology
incorporating lean principles.

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TOTAL PRODUCTIVE MAINTENANCE (TPM)

Overview

Total Productive Maintenance (TPM) is essential to ensure that every machine, both in production and in the office, is always able to complete its required task and never interrupt flow. TPM is a comprehensive system designed to maximize the effectiveness of each machine, to manage the life-cycle of equipment, and to develop an early equipment management program.

This class will cover the history of equipment maintenance and how it has developed into TPM. Participants will also learn about the Six Big Losses both how they reduce equipment effectiveness and how to eliminate them. The course material also covers the three phases (Preparation, Implementation, and Stabilization) and the 12 steps that are followed through these phases. Within, these phases, topics such as Autonomous Maintenance, Overall Availability, and Overall Equipment Effectiveness (OEE) are discussed in depth. Participants will gain a complete understanding of TPM and how each and every employee must get involved to ensure the equipment is available and capable when needed.

TPM promotes total employee involvement and is a cornerstone to ensuring success for any process improvement implementation. The goal is to optimize effectiveness, eliminate breakdowns, and promote routine daily, self sustaining maintenance practices. The goal is ZERO: zero defects, zero downtime, zero accidents, zero failures.

Learning Objectives

- Understand why TPM is important
- Learn how to implement & sustain TPM
- How to ensure total employee involvement
- How to measure results

Program Agenda

Day One

- Classroom training:
- TPM Defined
 - Types of maintenance
 - 5 Pillars of TPM
 - 6 Big Losses of equipment time
 - Autonomous Maintenance
 - Implementation Steps
 - Small Group Activities (follow up)

Days Two – Five

- Clean and inspect the equipment
- Complete cleaning and inspection, repair equipment, and return equipment to service
- Review and update preventative maintenance, develop daily maintenance schedule
- Management report out

Class Duration:

5 Days

Recommended Class Size:

15-20

Languages:

English

Prerequisites:

None

Class Location:

Preferred onsite

Who Should Attend:

A good cross functional group will provide the most benefit to the company. This includes:

- Management of all levels
- Operators
- Supervisors
- Team leaders
- Production control
- Manufacturing engineering
- Industrial engineering
- Inventory control
- Quality control

Materials Provided by

Duggan:

Student Guides
(containing all
instructor's slides)

Materials Provided by Client:

LCD projector, flipcharts, large whiteboard, photocopy machine, dry erase markers, flipchart markers, pencils, one calculator per team. (Coffee, lunches, etc.)



With experience in over 450 locations we are the specialist in global lean implementation.

The Duggan team consists of some of the most knowledgeable and experienced professionals in the business. Like Kevin, they emphasize a "hands-on" approach, implementing Lean in complex operations. As teachers and mentors to the executives they serve, they provide the strategic and technical education required for their clients' cultural transformation. The team directs companies away from random point Kaizen into structured value stream results.

The Duggan team is comprised of qualified individuals with industrial, management, and executive experience. Each member goes through an intensive "train-the-trainer" program teaching the standard work required to help companies achieve operational excellence. Through education and coaching, the team helps companies understand the importance of every employee seeing the flow of value to the customer and knowing how to fix that flow when it breaks down.

The Duggan team is comprised of experienced individuals who bring years of experience from all levels and all types of businesses.

Our team has worked in the following industries: Medical, Medical Products and Devices, Automotive, Heavy Machine Assembly, Consumer Products, Manufacturing, Electronics, Foundries, Quarry, Contract Packaging, Pharmaceutical, Aerospace, Industrial, Engineered System, Textiles, Chemical, Rubber, Plastics, Information Systems Design and Implementation, Business Logistics Management, Retail, Industrial Equipment, Fire and Rescue/Safety Equipment, Oil and Gas, Computer Services, Office Equipment, Food Industry, Paper Mills, Injection Molding, Extrusion, Fabrication, Retail Grocery, Distribution Centers, Medical / Analytical Equipment, Investment Casting.

Our team has worked in the following countries: United States, Spain, Brazil, UK/England, Ireland, Germany, Poland, France, Portugal, Canada, India, Singapore, China, Puerto Rico, Italy, Belgium, Malaysia, Czech Republic, Sweden, and Mexico.

Courses are available in: English, French, Dutch, German, Spanish.