



Lean Champion Certification Program

Course description: This program is aimed at rapid implementation of Lean methods to eliminate production waste in particular areas of a process. It covers the three phases of conducting an improvement event including: 1) Training, planning and preparation; 2) Implementation...the event itself; and 3) Presentation, and follow-Up.

This program consists of a total of 40 hours divided in classroom training and hands-on exercises.

Course Approach

It focuses on using operational resources as efficiently as possible allowing the company to achieve improvements in throughput, productivity, material and labor costs, safety, space utilization, and cycle time.

- Decrease Defects and Cycle Time
- Optimize Factory Operations
- Improve Efficiency
- Improve Communication and Teamwork
- Expand Knowledge of Products and Processes

Program Description - At a Glance

- Principles of Lean Manufacturing
- Value Stream Mapping
- 5S Workplace Organization
- SMED & Line Balancing
- Total Productive Maintenance
- Project Presentation and Evaluation (2)

Basic Requirements for Certification

- Successful completion of the appropriate training.
- One project in an acceptable format which is reviewed and evaluated by TMAC specialists.
- Proof of savings and/or reductions - ROI (dollar amount, lead time, space, etc) when submitting the final project.
- Project must be validated by company's Finance Department.



* Training material, handouts and certificate of completion are provided to all participants.
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For more information Call (915) 747-TMAC (8622) Office •
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PROGRAM DESCRIPTION

◆ Principles of Lean Manufacturing

- Introduction to Simulation
- Simulation
- Contrast traditional batch manufacturing with lean manufacturing
- Defining waste vs. value-added - Overview of 9 types of waste
- The House of Lean
- Visual controls, Pull/Kanban, TPM, Quick Changeover/ Set-up time reduction, Batch size reduction, Quality at the source.
- Workforce Practices, Cell manuf. 5 Steps, TAKT TIME, Line Balancing
- Waste Goals, Key Principles, Barriers, Success Keys, Benefits, Objections, Conclusions.

◆ Value Stream Mapping

- What is Value Stream Mapping?
- Determine Product Families
- Link material flow with information
- Current State Mapping
- Mass Production, Waste, and Overproduction
- Individual Efficiency vs. System Efficiency
- Continuous Flow Processing
- Problem Points in the Flow
- Supermarket Pull System
- Future State Mapping (Future State Questions and Icons, Team Tips, Implementation)

◆ 5S Workplace Organization

- What is The 5S System?
- Production Round 1
- Getting Started: Workplace Scan
- Sort Through and Sort Out
- Set In Order and Set Limits
- Shine and Inspect Through Cleaning
- Production Round 2
- Standardize and Share Information
- Production Round 3
- Sustain

◆ Total Productive Maintenance

- What is Total Productive Maintenance (TPM)?
- Current vs. Future State
- Overall Equipment Effectiveness (OEE)
- Applying OEE (Calculate and Interpret OEE; Analyze Causes of Equipment-Related Losses; Develop Improvement Plan and Tools)
- Maximizing Equipment Capacity
- TPM Implementation Process (Getting Started; Focused Improvement; Sustaining the TPM Environment)

◆ SMED & Line Balancing

- What Is Quick Changeover?
- Current vs. Future State
- Production Round 1: Document the Current Changeover and Identify Changeover Improvement Priorities
- Single Minute Exchange of Die (SMED) System
- Applying SMED: Analyze the Changeover Process and Reduce or Eliminate Changeover
- Production Round 2: Implement Improvements and Monitor Results and Standardize the Improvements

◆ Project Presentation and Evaluation (2)

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