

Lean Champion Certification Program

Course description: This Kaizen training is a team activity 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 60 hours divided in 32 hours of classroom training and 28 hours of on-the-job-training.

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

- Team Building
- Principles of Lean Manufacturing
- Value Stream Mapping
- 5S Workplace Organization
- Total Productive Maintenance
- Setup Reduction
- Pull/Kanban Systems
- Cellular/Flow Manufacturing
- Project Presentation and Evaluation (2)

Basic Requirements for Certification

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



* Training material, handouts and certificate of completion are provided to all participants.

**Take the first step to a more successful future!
Contact TMAC today for your free mini-assessment.**

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Email us at tmac@utrqv.edu

PROGRAM DESCRIPTION

◆ Team Building

- Learning Styles
- Basics of Team Participation
- Team Roles, Values and Responsibilities
- Effective conflict management
- Group Dynamics
- Synergy & Leadership
- Effective Communication
- Collaboration

◆ 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)

◆ Setup Reduction

- 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

◆ Pull/Kanban Systems

- Inventory Basics and Measures
- Pull and Lean Manufacturing
- How to get from Push to Pull
- Document Reality: Determine Your Current State (Value Stream Map)
- Visualize the Ideal State
- Create Plan/Strategy: Calculate Buffers and Select the Appropriate Pull Signals (*Kanban*)
- Make Changes: Train Personnel & Implement System
- Verify Changes / Check Effectiveness
- Confirm Results / Standardize

◆ Cellular/Flow Manufacturing

- What Is Cellular Manufacturing?
- Implementing Cellular Manufacturing
- Grouping Products
- Establishing Takt Time
- Reviewing the Work Sequence
- Balancing the Process
- Designing the Cell Layout

◆ Project Presentation and Evaluation (2)

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