



# Lean Manufacturing Level One Certification Fall 2023 - Centre County

## If you want to...

- ◆ **Reduce waste** (excess inventories, errors and rework, inefficient processes)
- ◆ **Maximize productivity** (quick changeovers, single piece flow, reduced variation)
- ◆ **Increase responsiveness** to ever-increasing marketplace changes
- ◆ **Engage your employees** in Continuous Improvement of your business

Then **EQUIP YOUR PEOPLE WITH THE TOOLS TO CONTINUOUSLY IMPROVE** with the Lean Manufacturing Level One Certification Program.

This eight session certification program is spread over four months and is a fit for Technical and Engineering Personnel, Managers and Supervisors and Production, Maintenance, Quality and Office Personnel depending on the company's implementation level of Lean/CI.

## Summary of Sessions:

### Session 1 - A3 Thinking & Value Stream Mapping (VSM) - September 15

Learn and apply A3 Tools and Thinking along with the Edwards Deming Plan-Do-Check-Act (PDCA) approach using a problem from your own organization. Learn the fundamental tool of Value Stream Mapping and build a VSM from customer order to shipping.

### Session 2 - Root Cause & Standard Work - September 29

Delves deeply into problem solving tools, methods and Standard Work including tools for identifying root causes (SIPOC, 5 Why, Fishbone) and for taking corrective and preventative actions (Benefit-Effort Matrix, Design of Experiment, Poka-Yoke,). Standard Work is presented as the foundation of CI and key to all other improvement activities.

### Session 3 - Effective Communication & Principles of Daily Improvement - October 13

Focuses on social styles within the framework of working Lean/Continuous Improvement (CI) with teams of people from different functions and levels of the organization.

### Jeff Kopenitz, Lean Certification Instructor

- ◆ Lean Master Black Belt & MBA
- ◆ Penn State Electrical Engineer
- ◆ 25 years manufacturing experience with GE and Stanley Tool
- ◆ 10 years Lean/CI consulting, training and implementations with small and mid-sized manufacturing companies

## Benefits of LEAN

### Tangible

- Reduced Lead Time
- Improved Quality
- Reduced Cost
- Reduced Inventory
- Improved Productivity
- Better Floor-space Utilization

### Intangible

- Better Teamwork
- Improved Morale
- Better Perception in the Eyes of the Customer

To set up your LEAN Certification, contact your IMC Business Advisor or call 800-326-9467 x8085.

<http://IMCpa.com/events/>



## Summary of Sessions (Cont.):

### Session 4 - Plant Tour & Project Coaching - October 27

Tour a manufacturing facility that has successfully implemented Lean/CI and identify best practices and opportunities for improvement. Total Predictive Maintenance (TPM) methods and examples for reducing downtime are also presented and discussed.

### Session 5 - Leading Through Change & Visual Workplace - November 10

Part one of this session provides an understanding of change, how people view and respond to change and how to better facilitate change in an organization. Part two introduces the visual plant. Ideas and examples will be discussed including a detailed review of the 5S Workplace Organization System (Sort, Set in Order, Shine, Standardize, Sustain).

### Session 6 - Teams & Changeover Reduction - December 8

Part one of this session is an exercise on Team Building that provides answers to the challenges of developing teams for successful problem solving and CI activities. Part two utilizes a NASCAR changeover simulation and teaching of SMED principles for achieving significant reductions in changeover times.

### Session 7 - Capstone - January 5

This session focuses on applying what participants have learned from previous sessions to reinforce learning. A team-based production simulation teaches a number of key reduction and productivity increasing tools and methods, such as inventory reduction, error-proofing, continuous flow, Kanban, etc.

### Session 8 - Team Project Presentations & Graduation - January 19

Participants will have done a “waste” walk within their organization and will exhibit their learning by presenting a Process Map and improvements that have been made within their organization. The work for the Waste Walk presentation is supported throughout the program. Participants will receive certification and an office-quality commemorative item of their achievement.

#### Identify the Waste

Defects

Overproduction

Waiting

Non-utilized People Skills

Transportation

Inventory

Motion

Extra Processing

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