

Lean Manufacturing Services

Lean Executive Overview: This one-day workshop is designed to provide an overview of Lean Manufacturing concepts and Lean Behaviors necessary for successful change. Discover how Lean makes work rewarding as well as profitable and enduring. Participants will have the knowledge and tools to create an effective lean strategy, develop personal lean leadership skills and gain broad support among colleagues for the lean transformation.

Principles of Lean Manufacturing 101 Workshop: An all-day, high energy, fast-paced presentation, in tandem with hands-on simulation activities so participants learn what advanced manufacturing is all about; identify the eight wastes in manufacturing and ways to reduce them.

5S System – The Visual Workplace: Experience how the 5S System reduces waste in a simulated production facility. Participants learn the concepts of the 5S System and then apply them to transform a cluttered, disorganized production area into a clean, organized and orderly workplace.

Principles of Value Stream Mapping (VSM): Learn how to create a value map of your current- and future-state processes. Understand the total flow of the value stream, see the sources of waste, determine common language about the process, show linkage of information and process, develop an improvement plan, and prioritize activities.

Quick Changeover/Set-up Reduction: Learn the fundamentals of set-up reduction in applying quick-change thinking to any type of setup or industry. Focus on attaining quick changeover through the systematic elimination of the internal components while streamlining the final procedure.

Total Productive Maintenance (TPM): Gain knowledge of Overall Equipment Effectiveness (OEE) and how it relates to capacity. Apply TPM principles and techniques to equipment in a hands-on simulation and experience how applying TPM can achieve dramatic improvements in uptime and increased capacity.

Cellular Flow Manufacturing: Discover how to link and balance operations to reduce lead times, minimize WIP, optimize floor space usage and improve productivity using a five-step process for designing and implementing work cells.

About Purdue MEP

Purdue MEP provides high-value solutions that help Indiana businesses maximize their success by increasing profits, reducing costs, and implementing growth systems. Our organization serves more than 500 companies annually by implementing continuous improvement principles in the areas of productivity, growth and technology. Purdue MEP has helped our clients collectively achieve over \$1 billion of economic impact in Indiana since 2005.

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Pull/Kanban Systems: Control resources in a production process by replacing only what has been consumed. Applies principles of Pull System/Kanban in a life-like simulation and demonstrates how principles can be applied to a variety of situations.

Standard Work: Provides you with the information and practice you need to participate in implementing standardization and standard work in your workplace. This workshop presents an approach to implementing standardization and standard work methods designed to eliminate waste from production processes. The methods and goals discussed in this workshop are closely related to the lean manufacturing system.

Error Proofing: Using simple, usually low-cost devices, fixtures, and procedures to reduce/eliminate errors. Stops errors before defective parts are created. Frees up the need for human vigilance and memory.

Advanced Problem Solving: Provides the background and skills necessary to lead an effective, structured, team-based, analytical approach that detects potential problems and thus alleviate chronic failure problems within an organization. Learn how to apply several techniques to detect, identify, analyze and solve performance problems by understanding variation, and uncover root causes and apply the Lean Six Sigma DMAIC (define, measure, analyze, improve, and control) problem solving approach.

Kaizen Event Facilitation: Kaizen is a team-focused approach aimed at the “continuous improvement” of processes. Kaizen facilitation coaches help cross functional teams to see non-value added (NVA) waste in any process and implement rapid system improvements using appropriate Lean Manufacturing tools and methodology: (Brainstorming, 5S, Teambuilding, Problem Solving, Cellular Flow, Pull/Kanban, Set-up reduction, etc.). Kaizen efforts improve quality, cost margins and equipment uptime while decreasing lead times.

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