



ADVANCED MANUFACTURING (LEAN) PRACTITIONER I CERTIFICATE

Learn why Lean makes work rewarding and at the same time profitable and enduring.

Upon successful completion of this series, each attendee receives a Purdue University Advanced Manufacturing Lean Practitioner I Certificate. This certificate is based on the National Institute of Standards and Technology's (NIST) prescribed tools and training methods, a widely accepted national standard in workforce development, and is offered in Indiana only through Purdue University. To earn your Advanced Manufacturing (Lean) Practitioner I certificate, please register for the entire series which includes all five workshop dates.

Areas of Focus:

Day 1: Principles of Lean Manufacturing 101 (8 hrs)

Learn the basic principles of lean manufacturing and how to apply them through an activity that involves a fast-paced simulated production line. You'll also learn about the eight wastes and lean techniques including 5S, standardized work, batch-size reduction, and visual signals. By the end of this day, the benefits of lean will be clearly apparent!

Day 2: 5S System - The Visual Workplace (8 hrs)

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.

Day 3: Principles of Value Stream Mapping (VSM) (8 hrs)

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.

Day 4: Quick Changeover/Set-up Reduction (8 hrs)

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.

Day 5: Total Productive Maintenance (TPM) (8 hrs)

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.

Additional Information:

Intended Audience: Manufacturing personnel, including technicians, engineers, and managers.

Credits: Workshop qualifies for 4.0 CEUs (continuing education units) through Purdue University.