

Join us for our Lean Specialist Program!

Advanced Manufacturing (Lean) Practitioner I and II Certificates

Purdue University Technical Assistance Program (TAP) - Manufacturing Extension Partnership (MEP) can help you prepare to be part of the next generation of Indiana Workforce. To become a Lean Specialist, complete both the Advanced Manufacturing (Lean) Practitioner I and II certifications. Learn the principles and techniques of Advanced Manufacturing (Lean). Hear from Manufacturing Specialists, working in industry daily, what it is about Lean that makes work rewarding and at the same time profitable and enduring.

Advanced Manufacturing (Lean) Practitioner I – Certificate

- 8 hrs - Principles of Lean Manufacturing with simulation
- 8 hrs - 5S the Visual Workplace with simulation
- 8 hrs - Total Productive Maintenance with simulation
- 8 hrs - Value Stream Mapping with simulation
- 8 hrs - Quick Change Set-up Reduction with simulation
- 40 hrs – Total

Advanced Manufacturing (Lean) Practitioner II – Certificate

- 8 hrs - Cellular Flow Manufacturing
- 8 hrs - Pull / Kanban Systems
- 8 hrs - Standard Work /Error Proofing
- 8 hrs - Advanced Problem Solving
- 8 hrs - Kaizen Event Facilitation
- 40 hrs- Total



Register
today!
\$2,950 /per
person*

Upon successful completion each attendee receives a Purdue University Lean Specialist 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.

*If utilizing DWD funds approval must be gained from your local office prior to registering for a workshop. These workshops are listed in the Indiana Department of Workforce Development Database of Education and Training Sources: GO TO <http://www.in.gov/dwd/> On the left side under PARTNERS click **WORKFORCE SERVICES** select 4th choice middle of the page **EDUCATION AND TRAINING CHOICES**. Search the site under **PROGRAM NAME: Lean Specialist or ETC Program ID: 8399**.

Note: Program ID may differ based on the city of origin of the application for funds - curriculum is the same state-wide. Search the site by provider name "Purdue Technical Assistance Program."

Rev 01-05-10

Advanced Manufacturing (Lean) Practitioner I Certificate

Course Descriptions:

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

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.

Lean Specialist Price: \$2,950

To Register: Workshops are being scheduled in your area. For a complete listing go to: www.mep.purdue.edu/events.
Registration information is available at this site.

For More Information: Visit www.mep.purdue.edu/jobseeker, email MEPworkshops@purdue.edu or call (800) 877-5182 x 620.

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Advanced Manufacturing (Lean) Practitioner II Certificate

Course Descriptions:

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.

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 problem solving approach.

Kaizen Event Facilitation

Kaizen means "continuous improvement". This continuous improvement methodology combines Lean Manufacturing Tools such as the 5Ss of Workplace Organization and Standardization, Cells, Pull/Kanban, Set-up Reduction, and Line Balancing. Each tool incorporates team empowerment, brainstorming, and problem solving to rapidly make improvements to a specific product or portions of work processes.

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