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The ultimate objective of the NECC/MEP Lean Certificate Program is to develop skills that can be applied to everyday business processes. To accomplish this, participants must know and understand fully how to apply these learned skills in a practical setting. The LCP exam not only provides a benchmark for these lessons learned but also sets the stage for a more advanced Lean Principles curriculum that is designed for Lean Champions. This exam is not to be confused with the SME/AME Lean Certificate Exam. However, with some additional reading material such as Lean Thinking, The Goal, and Gemba Kaizen, the material presented will set a straight path for this much sought-after certification.

Massachusetts Manufacturing Extension Partnership - Growth Based Solutions for Manufacturers

MassMEP is part of a nationwide network of technical, manufacturing and business specialists linked together by the U.S. Department of Commerce and the National Institute of Standards and Technology (NIST); the MassMEP is a unique resource for manufacturing in Massachusetts.

Northern Essex Community College has been providing employee training in the Merrimack Valley and Southern New Hampshire for more than 25 years, and supports Lean initiatives with courses that help companies create and sustain Lean Cultures. These courses are intended to be taught in parallel with the Lean training provided by The Massachusetts Manufacturing Extension Partnership (MassMEP).



*For more information
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Understanding and Applying Fundamental Lean Principles

*A comprehensive
10-Day, 80-hour
Lean Training
and
Application
Certification Program*



Designed and Presented by:

**Massachusetts Manufacturing
Extension Partnership (MassMEP)
and
Northern Essex Community College**

The NECC/MEP Lean Certificate Program (LCP) is a basic, “hands on” Lean Principles curriculum that is designed for those who want an introduction to, and ultimately want to apply, Lean Principles and methodologies to their existing business processes. The LCP also applies to those who wish to find ways of enhancing and ultimately sustaining Lean Principles within their existing Lean initiatives. The course curriculum is comprised of a combination of basic Lean instruction, a practical application of Lean principles to existing business processes and a best practices approach for preparing those who are interested in becoming certified in the Society of Manufacturing Engineers (SME)/Association for Manufacturing Excellence (AME) Lean Certificate Program.

Program Description

Day 1	Day 2	Day 3	Day 4	Day 5
<p>Lean 101 – 8 hours Lean 101 is a live simulation workshop where participants experience the changes and benefits of moving from a traditional to a lean manufacturing environment. At the end of this workshop there is a clear understanding of the eight costly wastes in manufacturing and how they can be eliminated.</p>	<p>Lean Office - 8 hours As part of an overall Lean Strategy, Lean Office is a key to realizing the often untapped gains available from Lean. Administrative activities make up a large percentage of the overall throughput time.</p>	<p>Value Stream Mapping (VSM) – 8 hours A value stream map is a standardized model used to lay out the stream of value-adding activities in a process while overlaying material flow, information flow, and non-value adding waste information to provide a qualitative picture of actual processes in your facility.</p>	<p>VSM Application Day – 8 hours Participants will develop their own Value Stream Maps for processes at their workplace. They will receive instruction and direction from an experienced lean implementer.</p>	<p>VSM Review and Kaizen Overview – 8 hours VSM application day reviewed and Kaizen improvement opportunities are identified. Continuous Improvement is best accomplished through the application of Kaizen, a Japanese process that follows the Deming Wheel (Plan-Do-Check-Act). Kaizen is a process where problems are quickly identified, analyzed and solved and the root causes are eliminated.</p>
Days 6 & 7	Day 8	Day 9	Day 10	Course Information
<p>Kaizen Activity Review – 16 hours Specific Kaizen activities will be discussed in detail and reviewed using a standard process. Kaizen activities to be reviewed are: 5 S/Workplace Organization Cell Flow Pull Systems Set up Reduction Total Productive Maintenance (TPM)</p>	<p>Kaizen Application Day 5S focus – 8 hours Students will have an opportunity to use the 8-step Kaizen process to apply the 5S workplace Kaizen methodology in their own workplaces. The results of Kaizen activities will be presented at the next class, using a Kaizen story board.</p>	<p>Review and Presentation of Lean Materials – 8 hours A comprehensive review will be conducted of the material presented during the previous eight training days, with a focus on the practical application of these lean principles applied to actual, real life business processes. Participants will be coached, prepped, and assisted with the development of a results oriented presentation that will describe the business process, the approaches used and the actual results of their efforts. Bottom line IMPACT is the bottom line of this course.</p>	<p>Program Preparation and Exam – 8 hours</p>	<p>CRN 1119 Wednesdays 8:30am-4:30pm 10 wks, 9/26-12/5 (no class 11/21) \$1500 Fee, North Andover</p>