

# Lean Continuous Improvement

[4.0 CEUs/ 40 PDUs]



## Course Description

In just six weeks, this course will prepare you to be a Lean practitioner and to execute highly effective Kaizen events, identifying and eliminating any waste you encounter and improving flow as you strive for zero defects and zero waste in every process and every action. You will learn how to define value, facilitate continual improvement teams, manage stakeholders, map the value stream, generate creative solutions, gather and graph critical data, implement the visual workplace, drive overall equipment efficiency and more.



## Course Outcomes

**Upon the successful completion of this course, participants will be able to:**

- Define the principles and philosophy of Lean
- Describe the value stream mapping technique
- Conduct a Kaizen event



## Included eBook

Dennis, P. (2010). The remedy: Bringing Lean thinking out of the factory to transform the entire organization. Hoboken, NJ: Wiley & Sons, Inc.



## Discussion Board

Share your experience with fellow participants and your course facilitator in weekly discussion board posts.



## Certification

This course prepares participants for the Certified Lean Practitioner (CLP) certification exam offered through Florida Tech.

[VIEW CURRICULUM](#)

\*Curriculum is subject to change. Please contact an enrollment representative for more information.

	Module	Learning Objectives	Assignments/Activities	Live Session Topic	Quiz
<b>Week 1</b>	Module 1: Lean Six Sigma	<ul style="list-style-type: none"> <li>□ Define the Lean Six Sigma terminology</li> <li>□ Explain the benefits of Lean Six Sigma</li> <li>□ Define the roles of Lean Six Sigma participants</li> <li>□ Define important Lean terms</li> <li>□ Describe the DMAIC approach to process improvement</li> </ul>	Self-Assessment Activity: Lean Six Sigma	<ul style="list-style-type: none"> <li>□ Lean Six Sigma</li> <li>□ Lean Six Sigma benefits</li> <li>□ Lean Six Sigma roles and responsibilities</li> <li>□ DMAIC process</li> <li>□ Lean terminology</li> <li>□ Questions and answers</li> </ul>	N/A
<b>Week 2</b>	Module 2: Lean Principles	<ul style="list-style-type: none"> <li>□ Define the five principles of Lean</li> <li>□ Describe the Lean principle of value</li> <li>□ Describe the Lean principle of value stream mapping</li> <li>□ Describe the Lean principle of flow</li> <li>□ Describe the Lean principle of pull</li> <li>□ Describe the Lean principle of perfection</li> </ul>	Self-Assessment Activity: Lean Principles	<ul style="list-style-type: none"> <li>□ The Lean principles</li> <li>□ Questions and answers</li> </ul>	Quiz 1
<b>Week 3</b>	Module 3: Waste and the Value Stream	<ul style="list-style-type: none"> <li>□ Identify examples of waste</li> <li>□ Define the eight types of waste</li> <li>□ Describe how to conduct a waste walk</li> <li>□ Explain the purpose for value stream mapping</li> <li>□ Explain how to generate a SIPOC process definition</li> <li>□ Describe how to use a SIPOC (supplier, input, process, output, customer) diagram as the foundation for a value stream map</li> <li>□ Describe how to create and use a value stream map</li> </ul>	Self-Assessment Activity: Value Stream Mapping	<ul style="list-style-type: none"> <li>□ The eight types of waste</li> <li>□ Waste walks</li> <li>□ The SIPOC diagram</li> <li>□ Value stream mapping</li> <li>□ Questions and answers</li> </ul>	N/A

	Module	Learning Objectives	Assignments/Activities	Live Session Topic	Quiz
<b>Week 4</b>	Module 4: Lean Methods	<ul style="list-style-type: none"> <li>□ Describe Lean pull</li> <li>□ Describe kanban</li> <li>□ Identify examples of advanced Lean pull systems</li> <li>□ Describe Lean flow</li> <li>□ Identify examples of Lean flow</li> <li>□ Explain the purpose of a spaghetti map</li> <li>□ Describe the visual workplace</li> </ul>	Self-Assessment Activity: Kanban	<ul style="list-style-type: none"> <li>□ Lean pull</li> <li>□ Lean flow</li> <li>□ Kanban</li> <li>□ Spaghetti mapping</li> <li>□ Visual workplace</li> <li>□ Questions and answers</li> </ul>	Quiz 2
<b>Week 5</b>	Module 5: Lean Improvement	<ul style="list-style-type: none"> <li>□ Describe total productive maintenance (TPM)</li> <li>□ Explain overall equipment effectiveness (OEE)</li> <li>□ Identify the five steps of overall equipment effectiveness (OEE)</li> <li>□ Describe standard operating procedures</li> <li>□ Explain mistake proofing (poka-yoke)</li> <li>□ Define rapid change</li> <li>□ Describe single-minute exchange of dies</li> </ul>	Self-Assessment Activity: Overall Equipment Effectiveness	<ul style="list-style-type: none"> <li>□ Total productive maintenance (TPM)</li> <li>□ Overall equipment effectiveness (OEE)</li> <li>□ Standard operating procedures</li> <li>□ Mistake proofing</li> <li>□ Rapid change</li> <li>□ Single-minute exchange of dies (SMED)</li> <li>□ Questions and answers</li> </ul>	N/A
<b>Week 6</b>	Module 6: Kaizen Course Conclusion	<ul style="list-style-type: none"> <li>□ Describe the 7S concepts</li> <li>□ Explain the purpose of a Kaizen event</li> <li>□ Compare and contrast process and product Kaizen events</li> <li>□ Identify the steps necessary to become a Kaizen event facilitator</li> <li>□ Describe the process of preparing for a Kaizen event</li> <li>□ Describe a five-day Kaizen event</li> </ul>	Self-Assessment Activity: Organizing a Kaizen Event	<ul style="list-style-type: none"> <li>□ 7S Concepts</li> <li>□ Kaizen events</li> <li>□ Process Kaizen events</li> <li>□ Becoming a Kaizen event facilitator</li> <li>□ Kaizen event preparation</li> <li>□ The five-day Kaizen event</li> <li>□ Questions and answers</li> </ul>	Quiz 3