Online Lean Six Sigma
Green Belt

50 Hours / 6 Months

Course Description

This course teaches Lean Six Sigma process improvement projects from start to finish. Green Belts can deliver measurable, sustainable improvement by finding the root causes of problems and streamlining processes. Your Green Belt Training course was developed to meet today’s changing business environments, and is facilitated by highly experienced and successful Lean Six Sigma Experts. This course draws on what our experts practice every day in the field to provide you with the most effective way to learn and implement Lean Six Sigma. The Lean Six Sigma Green Belt Certification requires that you complete your own real-world project and an exam to be successfully completed. Please see below regarding sourcing a project:

- Projects must be business-related. We recommend a project be completed at your place of employment.
- If you are not employed, a business-related project can be completed by finding a sponsor organization. We recommend finding a nonprofit organization to sponsor your project.
- We also encourage finding volunteer or internship opportunities. We have had a few learners complete successful projects by volunteering at their local churches, schools, and food banks, etc.

Upon completion of this course and required project, you will be prepared for the Lean Six Sigma Green Belt Certification exam.

Hardware Requirements

- This course can be taken on either a PC or Mac.

Software Requirements

- PC: Windows XP or later.
- Mac: OS X Snow Leopard 10.6 or later.
- Browser: The latest version of Google Chrome or Mozilla Firefox are preferred. Microsoft Edge and Safari are also compatible.
- Microsoft Office Suite or Google Docs/Sheets/Slides/Forms & Apache OpenOffice (not included in enrollment)
- Adobe Flash Player. [Click here](#) to download the Flash Player.
- Adobe Acrobat Reader.[Click here](#) to download the Acrobat Reader.
- Other: Email capabilities and access to a personal email account.
- Software must be installed and fully operational before the course begins.
## Course Outline

<table>
<thead>
<tr>
<th>MODULE</th>
<th>TOPICS COVERED</th>
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| 1. Introduction to Green Belt Training | • Overview of Lean Six Sigma  
• The 8 Wastes (DOWNTIME)  
• Lean Six Sigma Roles  
• Project Selection  
• DMAIC Overview |
| 2. Define Phase  
How to define the problem | • Create The Project Charter (Tool)  
• Understand The Current State  
• Develop Project Communication |
| 3. Measure Phase  
How to measure the current process | • Select Measures  
• Plan For Data Collection  
• Collect Baseline Data |
| 4. Analyze Phase  
How to identify the cause of the problem | • Conduct Process Analysis  
• Conduct Data Analysis  
• Brainstorm Root Causes  
• Develop Root Cause Hypothesis  
• Validate Root Cause Hypothesis |
| 5. Improve Phase  
How to implement and verify the solution | • Craft Solutions  
• Filter Solutions  
• Determine Solution Approach  
• Conduct Risk Management |
| 6. Control Phase:  
How to maintain the solution | • Create Monitoring Plans  
• Develop Response Plans  
• Document The Project  
• Pursue Perfection |

Please Note: The Lean Six Sigma Green Belt and Lean Six Sigma Black Belt Certification both require students to complete a project in addition to assignments and quizzes. Projects must be based off an actual business and are subject to approval by Master Black Belt Coaches.