

## **Lean Six Sigma Green Belt Certification: Administrative, Health Care, and Service**

Our self-paced online Lean Six Sigma Green Belt program covers all of the topics our classroom version covers. This program is geared toward people in service, administrative, and healthcare related roles. The format includes audio-visual presentation, case studies / readings, and test completion. And, like our classroom version, students will have the ability to contact the instructor with questions and requests for feedback on ideas and case exercises. The program is self-paced and up to 6 months are allotted to complete it; students will have access to the program for 1 year. Upon completion of the program (including a final test), students will receive a certificate (Certified Lean Six Sigma Green Belt) and 6 CEU's (Continuing Education Units).

The program also provides students with a SigmaXL software license and multiple templates that they can modify to suit their own needs.

The program covers the following subject matter:

- Lean Six Sigma Principles and Overview
- Lean Six Sigma Implementation
- Project Selection
  - NPV (Net Present Value) Analysis
  - Value Stream Mapping
- Lean Six Sigma Teams
  - Team Facilitation
  - Brainstorming Techniques
- Define Phase
  - Team Project Charter and Work Plan
  - Project Stakeholder Analysis
  - Measurable Customer Requirements
  - Requirements Statements
  - Process Mapping
  - SIPOC
- Measure Phase
  - Measurement Concepts
  - How to Determine What to Measure
  - Sampling Plans
  - Data Collection Methods and Forms
  - Developing Baseline Defect Measures
  - Process Capability

- Analyze Phase
  - Data Analysis- Exploring
  - Pareto Analysis
  - Run Chart,
  - Histogram/Frequency Plot
  - Cause and Effect Analysis
  - Scatter Plot or Correlation Diagram
  - Multi-Vari Charts
  - FMEA
  - Inferential Statistics and Hypothesis Testing Overview
  - Design of Experiments Overview
- Improve Phase
  - Generating Creative Solutions- Brainstorming
  - Analyzing and Selecting Solutions- Decision Matrix
  - 5S
  - Standardized Work
  - Leveling Work
  - Flow and Pull Systems
  - Mistake Proofing
  - Kaizen Events
  - Pilot Testing
  - Full-Scale Implementation
- Control Phase
  - Control Plan Elements
  - Statistical Process Control

*Features of the e-learning interface including audio-visual presentations, White Board, glossary, quiz/test, etc. are pictured on the following pages.*

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## Course Syllabus

The course is in PREVIEW MODE

### Lean Six Sigma Black Belt Syllabus (Self-Paced)

Instructor: Darren Dolcemascolo, [darrend@emsstrategies.com](mailto:darrend@emsstrategies.com)

**Program Requirements for Certification:**

1. Readings from Required Book: [The Six Sigma Way Team Fieldbook](#), Peter S. Pande, Robert P. Neuman, and Roland R. Cavanagh, 2001. (Available in bookstores and online booksellers)
2. Online Audio-Visual Presentations
3. Final Test/Quiz (70 Questions, Multiple choice, 70% or better score)
4. Case Exercises (provided online as downloadable attachments)
5. Black Belt Project Requirement

**Recommended Reference Book:** [Lean Six Sigma Pocket Toolbook](#), Michael L. George, David Rowlands, Mark Price, and John Maxey, 2005. (Available in bookstores and online booksellers)

**CONTENT**

- Course Syllabus
- Course Curriculum
- Introduction to Lean Six Sigma
- Lean Six Sigma Cartoon
- Chapter 1 Assignments
- Introduction to Lean and Six Sigma
- Lean Six Sigma Implementation
- Basic LSS Templates
- NPV Analysis Cartoon
- Project Selection
- Value Stream Mapping Cartoon
- Value Stream Mapping Overview
- Current State Mapping
- Future State Mapping
- Arima Wildcat VSM

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Control-Overview...mp4  
DOE-Fractional-F...mp4  
Improve-Solution...mp4

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Course Syllabus

Course Content

Additional Features (Glossary, Help, etc.)

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## Current State Mapping

The course is in PREVIEW MODE

**CONTENT**

- Course Syllabus and Slides
- Introduction
- What is Continuous Improvement
- Cartoon
- Lean Overview
- The Seven Wastes
- Value Stream Mapping: Current State
- Value Stream Mapping Cartoon
- Value Stream Mapping Overview
- Current State Mapping
- Lean Value Stream Principles: Leveling and Connecting Flow

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Improve-Solution...mp4

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MP4 Audio-Visual Presentations

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## Final Test

COURSE CONTENT QUIZ MY STUFF

**CONTENT**

- ✓ Course Syllabus and Slides
- Introduction to Lean and the 7 Wastes
  - ✓ What is Continuous Improvement?
  - ✓ Lean Overview
  - ✓ The Seven Wastes
  - ✓ Lean Healthcare: The Doctor's Office
  - ✓ Lean Healthcare Overview
  - Final Test**

**Final Test**

You have come to the end of the audio-visual lessons. Please ensure that you have completed all other assignments (see syllabus). If you are ready at this point for the final test, please click "Quiz" on the left or top of the screen. This is intended to show you formatting for our quizzes. This trial program includes a simple 7 question quiz. If you are ready to register for one of our certification or other training programs at this point, please visit the online lean training page of our website: <http://www.emsstrategies.com/Lean-Training/lean-training-online.html>. Courses include Lean Manufacturing Certification, Lean Six Sigma Black Belt, Lean Six Sigma Green Belt, Lean Six Sigma Yellow Belt, Lean Healthcare Certification, and many others.

[Click here to start your quiz.](#)

[back to Course](#) [Top](#)

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Final Test

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## Lean Six Sigma Black Belt Certification Program

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Term in all Glossary Search

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z #

**alpha**  
Probability of a type 1 error in hypothesis testing, usually chosen to be .05, .10, or .01.

**Andon**  
A system of flashing lights used to indicate production status in one or more work centers/machines within a facility.

**Autonomous Maintenance**  
A program in which equipment operators share responsibility with maintenance staff for the care of the equipment they use.

**Balanced Experiment (DOE)**  
An experiment is balanced when each factor has the same number of experimental runs at both high and low levels.

**Batch and Queue**

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Glossary