

## Lean Six Sigma Green Belt

### Overview

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The accelerated Lean Six Sigma Green Belt program and methodology allows students to complete certification requirements faster than traditional Six Sigma and Lean training programs. Successful candidates will be awarded the Lean Six Sigma Green Belt certification from Lean Sigma Corporation after passing the included certification exam. The certification exam is included in this course and you can take the exam at your convenience after passing section quizzes. You must complete the exam within 6 months of class.

### Course Objectives

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This course, combined with a Green Belt test and demonstrable application of the tools will lead to Green Belt certification.

### Course Outline

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#### 1 - Lean Six Sigma Introduction

Introduction to Lean Six Sigma  
Overview Lean Six Sigma Principles & Terminology  
Roles and Responsibilities in a Lean Six Sigma Organization  
Value Stream Maps  
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7 Wastes  
Project Selection

#### 2 - Define Phase

Voice of Customer  
Project Charter  
Process Mapping (high level and detailed mapping)

#### 3 - Measure Phase

Selecting Measures:  $Y=f(x)$   
Data Collection Planning  
Baseline Data Collection  
Basic Statistics

#### 4 - Analyze Phase

Process Analysis (Non-Value Add vs. Value Add)  
Graphical Analysis  
Determining Root Cause

## 5 - Improve Phase

Lean Solution Concepts: Standard Work, Batch Size Reduction, Work Cells, Kanban, Pull Systems and Kaizen Events  
Brainstorming Solutions to Address Root Cause  
Solution Selection, Pilot and Implementation  
Improvement Data Capture

## 6 - Control Phase

Monitoring, Revision and Response Plans  
Mistake Proofing and Visual Management  
Replication

## 7 - Green Belt Practice Test

### Related Courses, Certifications, Exams

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- Lean Six Sigma Black Belt
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