



Six Sigma Green Belt Training and Certification

Course Name

Six Sigma Green Belt Training and Certification

Course Objective

To provide students with the tools, techniques, and information necessary to successfully pass the exam and leverage Six Sigma methodologies for problem resolution and continuous improvements.

Location

Client Site

Duration

5 days, 8:30 – 4:30, 1 hour lunch break daily

Examination

Exam is administered mid morning on the 5th day. The exam consists of 40 multiple-choice questions to be completed in one (1) hour. The student must achieve a passing grade of at least 70% in order to achieve a Six Sigma Green Belt certificate.

Curriculum

See below. Curriculum based on American Society for Quality (ASQ).

Number of Students Per Class

Minimum 10, Maximum 20

Course Curriculum

The information presented in this course is based on ASQ's Six Sigma Green Belt Certification Body of Knowledge (BOK) and the ASQ Manual. This course is based on a real-world recovery project in order to provide the students with the most realistic experience as possible within a classroom setting.

Module 1: Six Sigma and the Organization

1. Six Sigma and Organizational Goals
2. Lean Principles in the Organization
3. Design for Six Sigma (DFSS) in the Organization

Module 2: Six Sigma Define Stage

1. Process Management for Projects
2. Project Management Basics
3. Management and Planning Tools
4. Business Results for Projects
5. Team Dynamics and Performance

Module 3: Six Sigma Measure Stage

1. Process Analysis and Documentation
2. Probability and Statistics
3. Collecting and Summarizing Data
4. Probability Distributions
5. Measurement System Analysis
6. Process Capability and Performance

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Module 4: Six Sigma Analyze Stage

1. Exploratory Data Analysis
2. Hypothesis Testing

Module 5: Six Sigma Improve and Control Stages

1. Design of Experiments (DOE)
2. Statistical Process Control (SPC)
3. Implement and Validate Solutions
4. Control Plan

Percentage of Time Spent on Main Topics

- Six Sigma and the Organization – 15%
- Define – 20%
- Measure – 25%
- Analyze – 20%
- Improve and Control – 20%

Course Includes

- Professional instruction (see summary of instructor qualifications below)
- Case Study/Forms
- Practice Exam
- Exam
- Certification

Reference Manual Not Included

- *The Certified Six Sigma Green Belt Handbook: Roderick A. Munro, Matthew J. Maio, Mohamed B. Nawaz, Govindarajan Ramu, and Daniel J. Zrymiak*

This reference manual is designed to help those interested in passing an ASQ-based certification exam for Six Sigma Green Belts, those who may need to train future Green Belts, and others who want a reference to the appropriate materials needed to conduct successful Green Belt projects.