

Six Sigma Black Belt Training--Certification

Six Sigma Black Belt training provides a comprehensive understanding of the Six Sigma process and tools needed to identify and effect significant improvements in quality, cost and customer satisfaction. Targeted specifically for those individuals who will be supporting Six Sigma teams on a full-time basis, students will learn how to identify improvement opportunities, measure and analyze a process, develop, assess and implement solutions, and establish controls to optimize and fix the gains.

Hours: 8 a.m. – 4 p.m.

Length: 4 weeks

Course Objectives:

Participants will learn:

- The concept of Six Sigma
- How to identify strategic improvement opportunities
- The major components of the DMAIC process.
- Tools used in each component of the DMAIC process.
- Advanced statistical tools for process optimization.
- How to plan, manage and lead successful Six Sigma projects.

Who Should Attend:

Candidates for the Six Sigma Black Belt.

Related Seminars:

- Six Sigma Green Belt Training
- Advanced Statistical Concepts
- Design of Experiments
- Project Management
- Process FMEA



Seminar Content

Week 1

Define and Measure

- Overview of Six Sigma
- Project Selection
- Understanding Processes and Systems

The **Define** Phase

- Tools and Techniques
- Project Management
- Using Microsoft Project
- Team Dynamics

Week 2

Measure

The **Measure** Phase

- Tools and Techniques
- Introduction to Minitab
- Certification Project Selection Instructions

Week 3

Analyze

- Project Reports and Review of the Define and Measure Phase

The **Analysis** Phase

- Tools and Techniques including Advanced Statistical Analysis and DOE
- Certification Project analysis Instructions.

Week 4

Improve and Control

The **Improve** Phase

- Project Reports and Review of the Analysis Phase
- The **Improve** Phase
- Tools and Techniques including mistake-proofing, DM/DFA and QFD.
- Certification Project Improve Instructions.

The **Control** Phase

- Project Reports and Review of the Improve Phase
- The **Control** Phase
- Tools and Techniques including Process Mapping, FMEA and Documentation. Development.
- Instructions for Project Submission and Closeout.

Off-line

- Final Project Review and Approval.