



Six Sigma Black Belt

Description: This is a course for participants who are charged with implementing Six Sigma in their organizations. The course covers both DMAIC and DFSS methodologies and uses more advanced statistical tools than Green Belt training. The course also includes change management concepts and techniques as well as team leading skills. Participants must lead a Six Sigma project while completing the course. Coaching sessions, in between classroom training, are also available. Certification is available based on project completion and passing a written exam.

Prerequisite: Must have completed Green Belt training.

Session One: Course Overview

Session Two: What is Six Sigma

- Overview of DMAIC/DFSS methodology
- Process Consulting
- Leading Change
- Effective Teams
- Setting Expectations
- Structuring and Facilitating Meetings
- Managing Conflict

Session Three: The “Define” Phase

- Intro to Define
- Voice of the Customer (VOC)
- CT Tree
- Problem Statements
- Project Charter
- COPIS (aka SIPOC)/ Project Scope
- Project Benefits and Strategic Alignment
- Change Management Parts 1 to 3

Session Four: The “Measure” Phase

- Introduction to Measure
- QFD
- Process Mapping
- Progressive Search
- Multivari
- FMEA
- Types of Data
- Measurement Error
- Sources of Variation
- Repeatability & Reproducibility
- Sampling Strategies
- Measurement System Analysis
- Gage R&Rs
- Process Capability
- Defect, DPU, DPO, & DPMO
- Change Management Part 4 and 5