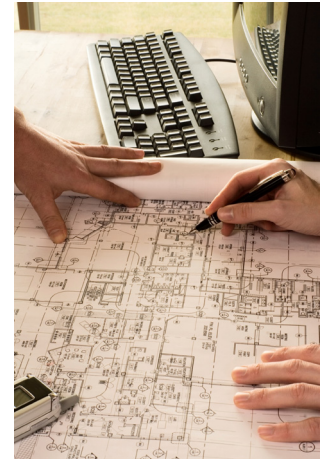


# Course Description

## Six Sigma Black Belt AMS313

### Overview

This course is designed for those individuals who are working directly as a Black Belt on Six Sigma projects, who will be managing Six Sigma Programs or who are managers of areas where a Six Sigma process is being implemented. It is assumed they will come from diverse background and disciplines but will be capable of managing or working on a variety of projects and are capable of coaching, mentoring and directing team(s). Black Belts (and candidates) should have an understanding of general business processes based on experience and training. There is an inherent requirement for the understanding of mathematic basics through algebra. Rudimentary calculus would be helpful.



There is an emphasis on the mathematics of the Measure and Analysis phases especially in the Statistics and Analysis of Variance and the Use of Minitab software. There is a certification option based on an exam. There is also an added option within an organization of completing an internal project(s) as required by the ASQ Black Belt certification requirements.

### Learning Objectives

- Understand the concepts of Six Sigma and metrics
- Understand and apply change management, team and coaching methodologies
- Understand and apply Project Management tools
- Understand and apply the DMAIC process
- Understand and apply process flows, develop process plan and controls
- Understand and apply data gathering, statistics, design of experiments
- Implementing a revised process, metrics and a control
- Develop a basic understanding of lean design for Six Sigma

### Format

This course is highly interactive and adaptive. Although there are tutorials and training materials the emphasis is on discussion of the concepts and methodology followed by individual and team exercises.

### Duration

19-20 days (4 weeks) – divided into 3 or 4 one-week sessions

### Who Should Attend

Individuals managing or working directly on a Six Sigma project and those responsible for their area implementing a Six Sigma process would benefit by taking this course.