



Six Sigma Master Black Belt Statistical Methods

CEQAL 565

Even Certified Black Belts can benefit from enhancing and enlarging their knowledge of statistical tools. Participants are exposed to a wide range of advanced tools not covered (due to time constraints) in the twenty-day Fast Track Black Belt program. Key focuses are on more advanced tools in the Measure and Analyze phases of the Six Sigma process.

Who Should Attend: Individuals who wish to further develop Six Sigma Black Belt project tools. Recommended for individuals interested in ASQ certification.

Prerequisite: Six Sigma Black Belt Fast Track

CEU's Credits: 8.0

Duration: 80 Hours – 10-day course

Course Content

Six Sigma Roadmap Review

Advanced Measurement Tools

- Analysis of Measurement Error
- Non-Repeatable/Destructive Testing
- Special Situations
 - Nested Studies
 - Two Reproducibility Factors
- Reference System Studies
- Attribute Systems

Advanced Analyze Tools

- Advanced Statistical Process Control
 - Multiple measurement locations
 - Non-normal Distributions
 - Trend Analysis
 - Other Control Charts

- Short run SPC
 - Variables Control Charts
 - Attribute Control Charts
 - Capability
- Design of Experiments
 - Mirror Image Designs
 - Multi-level Designs
 - Blocking and Related Designs
 - Mixed Level Designs
 - Nested Designs
 - Messy/Incomplete Data

Advanced Improve Tools

- Design of Experiments
 - Evolutionary Operation
 - Response Surface Designs
 - Advanced SOE Workshop

Each participant will receive a comprehensive manual and a Certificate of Completion at the close of the seminar.