



Six Sigma Black Belt Training (4 weeks)



Course Duration: 20 Days - 8 Hours/day

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Seminar Content

These four-week training sessions provide core training modules, practices and methodologies for Black Belt candidates. Trainees learn how key tools are utilized to form repeatable processes for solving critical problems; the learning cycle consists of four five-day training sessions over a four month period.

Learning Objectives

- Complete Six Sigma project with savings of \$100,000-\$150,000
- Use, teach, disseminate Six Sigma tools and methods to Green Belts and team members.

Seminar Outline

Week 1

- Introduction
- Customer Focus
- Six Sigma Background
- Roles and Responsibilities
- Project Selection and Charter
- Facilitation Fundamentals and Skills
- Interventions
- Change Management
- Essential Facilitation Tools
- Process Mapping (for Define Phase)
- Define Tollgate
- Measure Phase
- Measurement System Analysis Variance
- Measurement System Analysis Attributes
- Process Mapping (for Measure Phase)
- Data Collection

- Graphical Methods
- Basic Statistics
- Capability Analysis
- Project Deliverables
- Project Measure Tollgates
- Certification Requirements

Week 2

- Project Reviews
- Failure Mode & Effects Analysis (FMEA)
- Multi-Var Analysis
- Central Limit Theorem
- Confidence Intervals
- Hypothesis Testing
- ANOVA
- Correlation/Regression
- General Linear Models
- Six Sigma Deployment
- Black Belt Project Planning Reviews

Week 3

- One Way ANOVA
- DOE Planning
- Randomized Blocks
- Project Reviews
- DOE Overview
- Project Reviews
- Full Factorial Experiments
- 2k Factorial Experiments
- Fractional Factorial Experiments
- DOE Review and Advanced Info

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Week 3

- Project Planning / Deliverables
- Certification Requirements
- Black Belt Project Planning Reviews

Week 4

- Project Reviews
- SemiVariable-Control
- Statistical Process Control
- IATF 16949 / ISO 9001 and Six Sigma Synergy
- Kaizen and Lean Production
- Mistake Proofing
- Preventative Maintenance
- Statistical Problem Solving
- Non-Normal Data Analysis
- Statistical Tolerancing
- Six Sigma Design
- Final Report Review
- Certification Requirements
- Black Belt Project Planning Reviews

Who Should Attend

Candidates are usually drawn from the managerial or technical specialist level, with the expectation of being assigned responsibility to implement Six Sigma in a business unit.

Seminar Materials

Each participant will receive a workshop manual.

Pre-Requisite

Statistical training is recommended but not required.

A current, working version of Minitab is required for all attendees of this training course.

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