

Six Sigma Black Belt

Training Topics - Summary

Week 1

- Six Sigma Overview
- Project Identification, Metric Selection
- Thought and Process Mapping
- Cause and Effect Matrix
- Failure Mode and Effect Analysis
- Enumerative Statistics
- Minitab Introduction
- Measurement System Evaluation
- Numerical Evaluation of Metrics - Control Charts
- Process Capability
- Teaming Skills

Week 2

- Hypothesis Testing
- F-Test, T-Test, Chi-Square Test
- Components of Variation
- Analysis of Variance
- Full Factorial Design of Experiments
- Project Reviews
- Case Study

Week 3

- Design of Experiments Advanced Topics
- Fractional Factorial Design of Experiments
- Destructive Measurement Systems
- Restrictions on Randomization
- Non-Normal Data Analysis
- Analysis of Variance Extensions
- Project Reviews
- Case Study

Week 4

- Taguchi Contributions
- Attribute Data Analysis
- Regression
- Design Augmentation
- Center Point Experiments
- Response Surface Modeling
- Evolutionary Operations
- Control Plans
- Project Reviews
- Case Study

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