



▶ Six Sigma eBlack Belt

A convenient, cost-effective, yet technically challenging online program.

BMG University's **Six Sigma eBlack Belt** certification course is the most comprehensive and rigorous program available today. This intensive program provides you with the skills and knowledge you need to become a successful Six Sigma Black Belt. This flexible, self-paced program is ideal if you are seeking a cost-effective and time-efficient program.

Program Description

The Six Sigma eBlack Belt curriculum provides a detailed understanding of the DMAIC methodology and key Six Sigma tools. During the course, you learn how to apply a data-driven problem-solving methodology to improve critical processes within any organization.

The program is technically challenging to ensure that you gain the skills to implement solutions and produce hard financial results. In it, you learn both the basic and advanced concepts and tools that Black Belts require to successfully identify, define, implement and close Six Sigma projects. The course includes required exercises and satisfactory completion of a Black Belt project, both of which are reviewed by your dedicated online instructor. In addition, you must pass four comprehensive exams to earn Black Belt certification.

Program Highlights

- ❑ Engaging, interactive Flash-based lectures that parallel our industry-recognized classroom curriculum.
- ❑ A dedicated Master Black Belt instructor, as well as virtual office hours where Master Black Belt instructors provide real-time online support.
- ❑ Real-world case studies and examples from both manufacturing and transactional environments that enhance comprehension and understanding.
- ❑ Quizzes and exercises that reinforce learning outcomes.
- ❑ Comprehensive exams that test academic knowledge and practical aspects of applying Six Sigma.

Program Specifics

Who Should Attend:

Individuals who desire the technical and managerial skills of a Six Sigma Black Belt. No previous Six Sigma experience required.

Course Length:

Approximately 180 hours of self-paced study.

Course Includes:

Access to BMG University for one year.

Course Requirements:

Minitab statistical analysis software.
Recommended reading.

CEUs:

BMGI is authorized by IACET to offer 18 CEUs for this program.

Certification Requirements:

Completion of all assignments, a passing grade on all exams and completion of a Six Sigma Black Belt project.

Minimum System Requirements:

- ❑ 333MHz CPU or faster
- ❑ 128MB of RAM
- ❑ 56K, DSL or Broadband Internet Connection
- ❑ Soundcard, speakers or headphones
- ❑ 800x600, 16-bit color monitor
- ❑ Windows 98se, NT, 2000 or XP
- ❑ Internet Explorer 6.0 or later
- ❑ Flash Player 6.0.40 or later

Additional configuration settings may be needed.



"Six Sigma Black Belt training definitely assisted me in obtaining a global process excellence leadership role."

— Bruce Meuli
Black Belt
UBS Bank

KEY LEARNING OUTCOMES

On completion of this course participants will be able to:

- ❑ Identify opportunities for process improvement.
- ❑ Transform identified process improvement opportunities into clearly defined Six Sigma projects.
- ❑ Apply statistical analysis to determine the relationship between key inputs and process outputs.
- ❑ Identify the optimal solution to a problem and the settings in the process that will yield the best performance in the future.
- ❑ Implement systems to ensure improvements are maintained for the long-term.

Six Sigma eBlack Belt™

Program Agenda

This web-based training program involves approximately 180 hours of study consisting of multimedia lectures, homework, quizzes, threaded discussions, project work and exams. The average time to complete eBlack Belt training is 20 to 24 weeks, although you have access to the web-based system for an entire year from the start of training.

- ▶ Overview
 - ❑ Six Sigma from 50,000 Feet
 - ❑ Six Sigma Literally Speaking
 - ❑ Six Sigma Roles and Phases
 - ❑ DMAIC for Teams
- ▶ Define
 - ❑ Project Scoping
 - ❑ Project Definition
 - ❑ Introduction to Minitab
 - ❑ Introduction to Statistics
 - ❑ Data Collection
- ▶ Measure
 - ❑ Process Mapping and C&E Tools
 - ❑ Rolled Throughput Yield (RTY)
 - ❑ Introduction to Lean
 - ❑ Advanced Basic Statistics
 - ❑ Attribute Measurement Systems Analysis
 - ❑ Variable Measurement Systems Analysis
 - ❑ Capability Analysis
- ▶ Analyze
 - ❑ Understanding Graphs
 - ❑ Correlation and Simple Linear Regression
 - ❑ Failure Modes and Effects Analysis
 - ❑ Central Limit Theorem
 - ❑ Confidence Intervals
- ❑ Introduction to Hypothesis Testing
- ❑ Basic Hypothesis Testing
- ❑ Variance and Sigma Testing
- ❑ Proportions Testing
- ❑ Contingency Tables and Chi Square Tests
- ❑ Sample Size for Hypothesis Tests
- ❑ One-Way ANOVA
- ▶ Improve
 - ❑ Introduction to DOE
 - ❑ Predictor Evaluation with Attribute Data
 - ❑ Introduction to Logistic Regression
 - ❑ Randomized Block Design
 - ❑ 2k Factorial Experiments with Centerpoints and Blocking
 - ❑ Fractional Factorial Experiments
- ▶ Control
 - ❑ Advanced Regression
 - ❑ Black Belts as Pioneers
 - ❑ Control Phase Tools and Methods
 - ❑ Project Closure
 - ❑ Introduction to SPC
 - ❑ Survey Design and Analysis
 - ❑ Introduction to DFSS

“I like having the luxury of doing things at my own pace so eLearning is very convenient for me. I also like having the ability to review specific portions of the training to reinforce my understanding.”

— Robert Gray
Senior Analyst
Business Excellence
Turner Broadcasting Systems



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