Six Sigma Black Belt Program (2 Week) Training

Duration: **31 Day**

BILGINC IT Academy
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Learn about the tools needed to manage Black Belt-level projects.

Six Sigma Black Belts training provides deeper knowledge of the analytics tool to optimize complex processes. The focus of the projects, at this level of proficiency, is typically on optimizing the process – establishing the best settings to maximize and provide predictable process performance.

A project Certification is required to become a Certified Six Sigma Black Belt and this project is a real process improvement that the candidates choose to implement for their current employer.

Note: The Six Sigma Black Belt Live Instructor course is scheduled as a six-day course taking place from Tuesday to Thursday from 10 am to 4 pm Eastern Time on two separate weeks. The available class dates show the first and last day of the course. For example, a class date of April 15, 2025 & May 13, 2025 means that the first week of class is Tuesday, April 15 thru Thursday, April 17; and the second week of class is Tuesday, May 13 thru Thursday May 15.

Note: The Six Sigma Black Belt On-Demand course takes about 40 hours of training with 1-year access to complete it at your own pace. This is a self-paced format with 24/7 access, fully online, and you need an internet connection. You can register and start training whenever you want. There is no live engagement with the instructor during the training portion, but you have an email where you can ask questions for follow-up if necessary. Remote mentoring time for the project certification is included.

Who Should Attend?

The Six Sigma Black Belt program is for Green Belt professionals who want to master Six Sigma techniques and strategies, lead top-quality projects, and mentor Green Belts.

Prerequisites

The Six Sigma Black Belt program requires a prior**Green Belt training program**. Additionally, Minitab Statistical software is required.

What You Will Learn

- Apply advanced statistical tools and work with data of different types and distributions
- Apply different types of experiments
- Determine the sample size needed for experiments
- Apply the different types of optimization and how it affects processes

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Training Outline

- Law of Averages, aka Central Limit Theorem
- Advanced Measurement Systems Analysis
- Advanced Capability Studies
- Multiple Regression
- Between/Within Analysis, aka Nested ANOVA
- DOE Planning
- Full Factorial Experiments
- Fractional Factorial Designs
- General Factorial Designs
- Sample Size Calculation
- Optimization Designs
- Multiple Response Optimization
- Intermediate SPC
- Change Management
- Control Methods