

Six Sigma Online Black Belt Training from SixSigma.us

After attending this training, participants will be able to:

- Explain Multiple regression
- Perform Factorial Experiments
- Determine size calculations needed for experiments
- Describe the different types of Optimization and how it affects processes

This training is geared toward individuals that want an advanced understanding of Six Sigma.

- 80 PDU's will be awarded for completion of the online Black Belt training.
- 8.8 CEU's will be awarded for completion of the online Black Belt training.

Features that make our Online Black Belt Program Unique:

This online, on demand Six Sigma Black Belt training program using Minitab software examples leads to obtaining your **Six Sigma Black Belt** certificate. Upon completion, you will be able to join successful project managers who are saving billions by improving productivity, reducing waste, variation and defects. Since this program includes the full Green Belt curriculum, professionals with little or no prior experience with Six Sigma methodologies can enroll and work towards one of the most sought-after credentials in business today, the Six Sigma Black Belt certificate. As a Six Sigma Black Belt, your mastery of Six Sigma techniques and strategies will help you lead top-quality projects and mentor Green Belts in your organization, where together you will identify and implement breakthrough improvements for enhanced bottom-line results.

What You'll Get

- Digital version of the same, complete Black Belt (includes Green Belt) program delivered to our live classroom attendees
- On demand, 24/7 access for **ONE year of access** to professionally narrated online SixSigma.us training courses
- ONE year of access to the training manual in electronic format with the ability to print 2 copies for your own use.
- Numerous Project Templates and Job Aids for Six Sigma Projects
- Online Exams and Quizzes, including a comprehensive final exam.
- Upon completion of the training and passing the comprehensive final exam, you will receive:
 - Six Sigma Black Belt Training Certification
 - **8.8 IACET CEUs** and **80 PMI PDUs**

Optional Elements

- Bound and color printed materials can be purchased and shipped anywhere in the US for \$125.
- We teach you how to use Minitab software while completing this training course. If you don't have Minitab, you can purchase a discounted version of Minitab with this training program. Minitab 16 now retails for \$1395, but you can get it for as low as \$900 when bundling it with this training program.
- Project certification can be obtained for an additional charge of \$500. This includes up to four hours of Master Black Belt remote support and project review time.

Contact us if you have additional questions.

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Online Program Requirements

- A computer with online access to the internet with a browser and Microsoft Windows
- Sound Card and Speakers
- Display Settings of at least 1024 X 768 Screen Size
- Adobe Acrobat Reader
- Secure PDF Viewer from LockLizard (free)
- Flash Player
- Access to Microsoft Office 2000 or newer
- SigmaXL software. A free 30 demo available through SigmaXL
- **Please note there are no refunds once the program has been started.**
- You are not to provide your login information to other users. Your online account is for your personal use.

Choose items to add to your training:

- Printed Course Manual—\$125.
- Minitab 16 Software—get the full version for as little as **\$900** when you purchase it with the online program. A savings of **\$495** off the retail price!
- Project certification that includes three hours of Master Black Belt remote support and project review time—\$500.

Online Black Belt Agenda

Course Syllabus**Six Sigma Green Belt Session 1**

- Six Sigma Introduction
- Six Sigma Project Definition
- Project Selection Process
- Six Sigma Deployment
- Process Mapping
- Input Prioritization Tools
- Failure Mode Effect Analysis (FMEA)
- Minitab Introduction
- Measurement Systems Analysis (MSA)
- Capability Analysis
- Sample Size Selection
- Statistical Process Control (SPC)
- Process Control Plan
- Project Plan & Deliverables
- Final Exam Module 1

Six Sigma Green Belt Session 2

- Advanced Graphical Analysis
- Multi-Vari Planning
- Variation Trees and Funneling
- Hypothesis Testing
- Statistical Analysis Roadmap
- Test for Mean with t-test
- One Way ANOVA
- Non-manufacturing Applications
- Correlation and Regression
- Multi-Vari Analysis
- Process Control Plan
- Project Plan & Deliverables
- Final Exam
- Comprehensive Green Belt Exam

Six Sigma Black Belt Session 1

- Multiple Regression
- Advanced Multi-Vari
- Attribute Measurements
- Attribute Measurement Systems
- Sample Size Calculations
- Six Sigma for Service
- Managing Change
- Introduction to DOE
- Full Factorial Experiments
- Full Factorial Simulations
- Fractional Factorials Designs
- DOE Sample Size Selection
- DOE Project
- Project Planning & Deliverables
- Final Exam Black Belt Session 1

Six Sigma Black Belt Session 2

- Design of Experiments Review
- Blocking in Experiments
- General Factorial Experiments
- Residual Analysis
- Non-Normal Data - Transformations
- Non-Normal Data in Experiments
- Sequential Experimentation
- Transactional Improvements
- Simulations for Improvement
- Applied Experimentation
- Statistical Process Control
- Mistake Proofing
- Control Methods
- Project Closure and Synergy
- Class Project
- Integration of Lean
- Final Exam Module 2
- Comprehensive Black Belt Exam

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