6sigma.us
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Six Sigma Black Belt Training

Our 8 day Six Sigma Black Belt after Green Belt program requires that individuals be Green Belt certified. We accept registration in our Black Belt class from people who have been trained by other providers in any credible Green Belt program. Contact us if you have any questions about your Green Belt certification.

ACCREDITED BUSINESS

GSA Contract Holder
Contract GS-02F-114AA

CONTACT US
(877) 497-4462
info@6sigma.us
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What Makes Our Black Belt Program Unique

- Modular format allows flexible options for Green and Black Belt coursework
- Previously trained Green Belt continues on to a Black Belt in two weeks
- You have the option to choose different locations and dates for Week 1 and Week 2
- Project selection support prior to first day of class
- Courses led by certified Master Black Belt and top rated instructor
- Extensive experience in over 25 countries with leading corporations
- Outstanding course material integrating new methods with a “Lean Option”
- 6sigma.us certification process included in course cost
- Our low overhead allows for exceptional consultants at a reasonable cost

Six Sigma Features

- All course leaders are Master Black Belts with extensive project knowledge and real world experience
- Each week of class includes support and project consultation with Master Black Belt
- Six Sigma Black Belt project certification review
- Certificate issued after student’s project is accepted
- 6sigma.us generic templates and data files are included
- Basic Six Sigma project examples are included
- All-purpose Project Charter models are offered
- MINITAB macros that make tedious jobs easier and improve the quality of graphics are provided
- Students receive Black Belt project review and certification
- Discounted rates are available for Onsite Consulting

After attending this training, participants will be able to:

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

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Our Six Sigma Black Belt Agenda

Week 1

- Green Belt Review
- Review Exercise
- Central Limit Theory
- Project Presentations
- Advanced MSA
- Advanced Capability
- Multiple Regression
- Nested ANOVA
- DOE Planning
- Randomized Block Designs
- Full Factorials
- Review

Week 2

- Week 1 Review
- Review Full Factorials
- Fractional Factorials
- Exercise
- General Factorials
- Sample Size
- Project Reviews
- Chi-Square
- Optimization Designs
- Multiple Responses
- Change Management
- SPC Review for Control
- Control Methods
- Final Review
- Wrap-Up

Learning Objectives

Black Belt concepts will build upon the Green Belt learning objectives by covering the following:

- Background for various statistical techniques (Central Limit Theorem, sampling theory, etc.)
- Establishing measurement capability for complex measurement systems
- Advanced capability assessment techniques
- Designing and conducting a variety of Designed Experiments
- Additional analytical tests for sources of variation (Regression, Multiple Regression)
- Optimization techniques for multiple performance metrics
- Advanced time series analysis techniques

As an approved provider for IACET and PMI®, 6sigma.us is authorized to issue 6 CEUs and 60 PDUs, respectively, for students who successfully complete all training and required exams.

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