

6sigma.us  
1-87SIXSIGMA



# Six Sigma Master Black Belt Training

Master Black Belt certification is geared toward individuals and companies wanting the skills to train other individuals in Six Sigma philosophies. It also allows individuals to perform the highest level of Six Sigma projects and implementation.



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# What Makes Our Black Belt Program Unique

6sigma.us has developed and delivered a two week Master Black Belt program focusing on advanced Six Sigma statistical methods used in Six Sigma projects.

The core curriculum was developed to enhance the statistical expertise of certified Black Belts keeping in mind the tools used on a majority of Six Sigma projects. We focus on developing project management and strategic deployment skills of the candidates. "Train-the-trainer" option is offered to ensure the training design and delivery competence. This option combined with responsible license fees for Green and Yellow material can move your organization closer to self-sufficiency.

## Prerequisites

- Prior Black Belt Certification (Provide Proof)
- Led or mentored 10 projects
- At least one DMAIC project must be in detail
- All other projects must be listed with information that includes, who, what, when, and where (need not be DMAIC)
- Experience delivering training of at least 40 hours (accumulative)
- Evidence of a leadership or other type of soft skills training (at least 40 hours)
- Complete our two week Master Black Belt training program

A candidate must successfully meet all requirements. Once a candidate has met the eligibility requirements the instructor will schedule an in-depth interview with each candidate to evaluate the quality and appropriateness of the experience and presented evidence. After the interview, the instructor will recommend Master Black Belt certification, if the student meets all of the criteria. CEU and PDU credits will be provided to students after successfully completing the training and required exam. Individuals interested in receiving PDUs or CEUs must pass a comprehensive online exam.

## After attending this training, participants will be able to:

- Develop strategic Six Sigma deployment goals
- Align projects to the organizational strategic plan
- Mentor Six Sigma projects
- Develop and enhance organizational Six Sigma infrastructure
- Ensure Six Sigma institutionalization in the company
- Perform higher level Factorial Experiments

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# Our Six Sigma Master Black Belt Agenda

## Week 1

- Master Black Belt Body of Knowledge
- Six Sigma as a Business Strategy
- DMAIC Roadmap and Project Coaching
- Variation and Variance Components
- Project Management and Selection
- Business Process Scorecards
- Advanced Control Charts
- Variance Components with Control Charts
- MSA Review with Destructive
- Advanced Attribute MSA
- Kappa MSA
- Sampling Revisited
- Distributional Analysis including Weibull
- Minitab Tricks and Tips
- Non-Parametric Analysis
- Regression Review and Non-Linear Models

## Week 2

- Regression Diagnostics
- Best Subsets Regression
- Collinearity and Regression
- Modeling Qualitative Variables
- Validating Models
- Fractional-Factorial Review
- Blocking and Design of Experiments
- Sequential Experimentation
- Foldover Designs Chi-Square
- MBB Presentations
- Plackett Burman Designs
- Attribute Response Methods
- Optional Integration Lean Overview
- Optimization Designs
- Multiple Response Optimization
- Optional Formulation Designs
- Integrating Robust Experiments
- Experimental Planning

## Added Features

- Master Black Belt Certification after completion of training
- Available Live Train-the-Trainer program to assist you teaching your first courses
- Discounted License Fees for 6sigma.us' Training Materials
- Onsite Consulting Support at a discounted rate
- Professionally printed color laser student notebooks

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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