

Six Sigma Master Black Belt Development from SixSigma.us

*“No more putting those
difficult questions into the
parking lot”*

“Best physical explanation of
Design Experiments I have
ever heard” GE Certified MBB

“Instructor was able to convert
the knowledge to real world
examples”

“Instructor is able to answer
ALL questions”

“Teaches by example”

“Instructor knows how to teach
adults”

“While some instructors are
just entertainers, this instruc-
tor is a teacher”

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

In addition to typical Black Belt tools, new tools will be covered in areas such as study of variation, multi-vari experiments, nonparametric analysis, destructive testing, handling attribute responses (far beyond Freeman-Tukey), practical experimentation, optimization experiments, handling multi-response experiments, distributional analysis, advanced regression methods, advanced SPC methods and have fun while doing all this!

We will start out by dissecting the Six Sigma Chartering Process and reviewing different Black Belt programs. 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. At the beginning of each topic is a detailed review of the must knows from Black Belt level material. One result of building the Master Black Belt curriculum from the Black Belt material is to create a deeper understanding of the DMAIC roadmap. In addition, increasing the knowledge base of statistical methods will assist future Master Black Belts to become better leaders of four week Black Belt programs. After these two weeks Black Belts will be able to handle those difficult questions in a straight forward manner and not have to "Let's put that question in the parking lot".

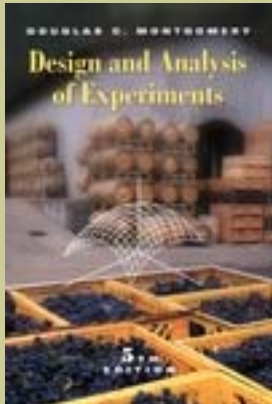
Clearly each Master Black Belt program must include material beyond statistical methods. It has been our experience at SixSigma.us that most organizations already have expertise in teaming, leadership, presentation skills, finance, etc.

We will be happy to work with you to develop your Black Belts and your Master Black Belt program. We do offer a train-the-trainer live program. This option combined with responsible license fees for Green and Yellow material can move your organization closer to self-sufficiency.

Contact us to discuss delivery for your Master Black Belt Candidates.

Master Black Belt Agenda

“No more putting those difficult questions into the parking lot”



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Creature Features

- Morning and afternoon snack each day
- Lite lunch each day except Friday
- Professionally printed **Color** Laser student notebooks
- Fun and exciting exercises
- Relaxed learning atmosphere
- Certification of training after completion of training
- MBB Certification requires project experience
- On-site Consulting Support at a discounted rate
- Train-the-Trainer Live program to assist you teaching your first courses
- Discounted license fee for Green Belt and Yellow Belt material

Week 1 Six Sigma Master Black Belt Agenda

<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • MSA Review with Destructive • Advanced Attribute MSA • Kappa MSA • Sampling Revisited • Distributional Analysis including Weibull • Minitab 14 Tricks and Tips • Non-Parametric Analysis • Regression Review and Non-Linear Models
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Week 2 Six Sigma Master Black Belt Agenda

<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Plackett Burman Designs • Attribute Response Methods • Optional Integration Lean Overview • Optimization Designs • Multiple Response Optimization • Optional Formulation Designs • Integrating Robust Experiments • Experimental Planning • MBB Presentations
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