

▶ Transactional ToolMaster

Take DMAIC understanding to a new level with advanced tools and knowledge.

ToolMaster training is designed to provide Six Sigma practitioners with a mastery of DMAIC tools. This is an advanced class that is focused on helping participants learn how to apply Six Sigma techniques to transactional processes. ToolMaster is critical to helping students take their knowledge of DMAIC to a master's level. This is one of nine electives that are part of BMGI's Master Black Belt program.



Course Description

BMGI's Transactional ToolMaster course is ideal for practicing Black Belts and Master Black Belts who have the desire or need to extend their knowledge and problem-solving capability. It is also a great preparatory workshop for potential Six Sigma instructors. In addition, any Black Belt or Master Black Belt candidate who is responsible for training, mentoring or supporting other Six Sigma Belts should attend.

The class integrates a review of traditional Six Sigma tools along with instruction on invaluable advanced topics that are frequently asked about. Tools such as destructive measurement system analysis, non-normality, non-parametric testing, DOE for attribute data, DOE for sigma reduction and others are introduced to students. In this hands-on class, participants will achieve a level of proficiency and understanding that will take them well beyond their peers and enable them to solve previously unsolvable problems. In addition to the agenda topics (see reverse), instructors integrate homework assignments and review along with participant sharing sessions as time allows.

Course Specifics

Who Should Attend: Recommended for MBB candidates and Black Belts that have completed at least one Six Sigma project. Appropriate for some Green Belts.

Course Length: Five (5) consecutive days (36 hours of instruction).

Course Requirements: Participants need a laptop computer running Minitab.

CEUs: BMGI is authorized by IACET to offer 3.6 CEUs for this program.

Course Agenda

- ▶ **Day One**
 - The Nature of Transactional Projects
 - Survey of Categorical Metric Data Analyses
 - Topics in SPC
- ▶ **Day Two**
 - Discreet Probability Distributions
 - Lot Acceptance
 - Cycle Time Distributions
- ▶ **Day Three**
 - Advanced Multiple Regression
 - Logistic Regression
 - Measure of Association
- ▶ **Day Four**
 - Introduction to Queuing
 - Forecasting with Time Series
 - Survey Design
- ▶ **Day Five**
 - Survey Analysis
- ▶ **Optional Topics**
 - Project Identification & Definition
 - Project Scoping

"The material was very useful and additive. I've already begun referencing it in support of some Black Belts and Green Belts."

– Thomas Pezzino
Master Black Belt
DuPont

KEY LEARNING OUTCOMES

On completion of this course, participants will be able to:

- Better identify and define opportunities for transactional process improvement.
- Provide more capable project mentoring for practitioners.
- Apply attribute analysis techniques not taught in standard DMAIC curriculum.
- Achieve an in-depth foundation for analysis techniques traditionally used in a transactional environment.
- Acquire and analyze survey data for driving Voice of the Customer data.
- Investigate basic queuing and forecasting problems.