

Motorola Six Sigma® Black Belt Program

— for Developing Six Sigma
Experts in Your Organization



Program Candidates

Black Belts are experts groomed in the Six Sigma methodology and advanced statistical tools. They can come from all functions of your organization. Although candidates do not need to be statisticians, they need to be willing to use statistical tools to apply Six Sigma.

Program Overview

Since a key role for Black Belts is to effectively lead project teams, our program prepares your candidates to do just that. The Motorola Black Belt Program gives your candidates the skills and knowledge they need for the exceptional leadership of business improvement projects. Upon completing each segment of training, participants immediately apply concepts and tools taught in training to their real-time improvement projects.

Black Belt candidates learn to use:

- the DMAIC model* for process improvement and
- statistical tools and techniques to make fact-based decisions.

Program Length

Four weeks delivered over a four-month time frame

Black Belt Certification

We offer the option of formal Black Belt certification. It requires that your Black Belt candidates complete training, pass a test, and demonstrate results on improvement projects.

Software

Participants need to bring a laptop computer preloaded with MINITAB® software.

Location

This program is available either as open enrollment training at a Motorola site or onsite at a location of your choice.

*The DMAIC model is a systematic method for analyzing and improving business processes.

It consists of five phases:

- Define Opportunity
- Measure Performance
- Analyze Opportunity
- Improve Performance
- Control Performance

Motorola Leads the Marketplace

Motorola has developed thousands of skilled Black Belts since we created the Black Belt concept in 1991. Over time, we have continuously updated and refreshed our courseware. As a result, we deliver the most comprehensive and rigorous program in the marketplace. Our Black Belt Program includes practical case applications and significant hands-on practice with software tools.

Black Belt Program Content



SCHEDULE/PHASE	TOPIC	PROJECT WORK
Training Week 1 Define Phase Measure Phase	Six Sigma Overview Define Opportunity – What is important? Validate business opportunity Document and analyze processes Define customer requirements Build effective teams Introduce statistical software	Month 1 Project charter Action plans Process maps Key process indicators Data collection plan Measurement analysis Baseline performance
	Measure Performance – How are we doing? Determine what to measure Manage measurement Evaluate variation Evaluate measurement systems Determine process performance	
Training Week 2 Analyze Phase	Analyze Opportunity – What is wrong? Analyze potential root causes Implement comparative methods Conduct sources of variation studies Apply failure mode and effects analysis	Month 2 Collected data Data analyses Sources of variation FMEA study
Training Week 3 Analyze Phase (cont.) Improve Phase	Complete Correlation and Regression Analysis Improve Performance – What needs to be done? Conduct design of experiments Generate improvement ideas Evaluate and select solutions	Month 3 Data analyses (cont.) Validated root causes Potential solutions Selected solutions Communication plan
Training Week 4 Improve Phase (cont.) Control Phase	Apply Response Surface Methodology Present recommendations Implement change Control Performance – How do we guarantee performance? Develop and execute pilot plan Plan and implement solution Implement process control Integrate processes Close project and recognize team	Month 4 Pilot plan Control plan Training plans Implementation plans

Quick Wins Even though a Black Belt Program takes four months to complete, you will see *quick wins* even sooner.

Taking the Next Step

Please contact us for more information by visiting www.motorola.com/mu or by calling **1-800-446-6744** (toll-free within the U.S.) or **1-847-576-1310** (from outside the U.S.).