



MOTOROLA UNIVERSITY

Motorola Lean Six Sigma® Green Belt Training and Certification Program



Program Participants

Managers, Project Leaders, Senior Engineers, Green Belt Candidates and anyone who desires an understanding of Lean Six Sigma principles and skills. No previous Six Sigma and Lean experience is required.

Program Overview

Motorola University's Lean Six Sigma training combines lectures with simulation exercises to give participants the opportunity to follow a structured improvement methodology. Using the DMAIC model, it teaches participants how to apply Lean principles and tools in conjunction with the Six Sigma rigor and methodology to achieve rapid and significant improvements with greater speed and reduced process variation.

Upon Completion, the Participant Will Be Able To:

- Simultaneously improve both quality and speed by combining Lean with Six Sigma
- Understand the Lean Six Sigma methodology and improvement processes
- Properly define, scope and work on Lean Six Sigma projects
- Construct a Value Stream Map and apply the map to identify improvement opportunity
- Learn to recognize waste
- Incorporate a comprehensive set of quality tools to problem solving
- Implement quick improvements using a structured Kaizen Event
- Learn to mistake-proof a process to reduce rework
- Apply SPC and visual process management to monitor the process
- Use MINITAB® 14 to enhance analysis for process improvement projects

Program Length

6 days

Certification

We offer the option of formal Green Belt certification. It requires that your Green Belt candidates complete training, pass a test, lead and successfully complete one Green Belt project. Project will be assessed for business impact (financial and/or "soft-dollar" impact) as well as Lean Six Sigma skill demonstration.

Software

Participants need to bring a laptop computer preloaded with Microsoft Excel (Windows 97 or higher) and MINITAB®. They will receive Excel add-ins for additional statistical functionality.

Location

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



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Motorola Lean Six Sigma® Green Belt Training and Certification Program Content

Define Opportunity - What is important?

- Select business improvement opportunity
- Develop project team charter
- Define customer requirements
- Document business processes
- Understanding basic concepts

Measure Performance - How are we doing?

- Achieve an in-depth understanding of the process using value stream mapping
- Determine what to measure
- Develop effective data collection methods
- Evaluate measurement systems
- Determine process performance

Analyze Opportunity - What is wrong?

- Identify potential root causes
- Implement comparative methods
- Conduct Sources of Variation (SOV) study
- Conduct correlation and regression analysis

Improve Performance - What needs to be done?

- Develop potential solutions
- Evaluate and select solutions
- Develop "To Be" Value Stream Map
- Develop and implement pilot run

Control Performance - How do we guarantee performance?

- Mistake-proof the process to eliminate defects from the process
- Complete all documentation including SOPs, Process Control Plans, and Training Plans
- Develop a monitoring system and implement SPC and Visual Process Controls to provide feedback on the process

