Motorola Design for Six Sigma® Green Belt Training and Certification Program



MOTOROLA

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Program Participants

Participants will learn a structured methodology and comprehensive set of tools specifically for new product development. Product engineers are ideal candidates for this program. Candidates do not necessarily have to be certified Green Belts or Black Belts with experience applying the DMAIC methodology to improve existing processes or products.

Program Overview

Design for Six Sigma (DFSS) is a methodology for driving breakthrough performance in new product development.

This program is structured around the DMADV* model-a five phase model similar to the more traditional DMAIC model. DMADV is about "designing in" quality, cost savings and faster time-to-market. To achieve this, the DMADV model places special emphasis on the following:

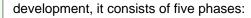
. Understanding and quantifying market needs and customer needs

- . Translating customer needs into product specifications
- . Quantifying allowable variability
- . Delivering innovative design solutions
- . Applying robust design techniques

Program Length 6 days Software Participants need to bring a laptop computer preloaded with Excel and the trial version of Crystal Ball Location This program is available either as open enrollment training at a Motorola site or as onsite training at a location of your choice.

Our Design for Six Sigma program provides a practical approach to product development projects. The program focuses on implementing a defined Product Development Process and applying relevant DMADV tools in each stage to launch new products in support of the established business case on time, within budget, and at unprecedented quality levels.

*The **DMADV** model is a systematic approach to product





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- . Define Requirements
- . Measure Performance
- . Analyze Relationships
- . Design Solution
- . Verify Functionality



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Program Content	
Define Requirements - What do our customers need?	Measure Performance - What are our metrics?
Defining Business Opportunity	Identify Functional Requirements
Introduction to Monte Carlo Simulation	Evaluate Measurement Systems
Defining Customer Requirements	Perform Process Capability
Basic Statistics	Measure Summary
Define Summary	
Analyze Relationship - How can we meet customer	Design Solution - What are our design
requirements?	alternatives?
Quantify Impact of Design Factors on Critical Customer	Validate / Refine Transfer Function Models
Requirements (CCR)	Making our Design Robust
Quantify Issues & Determine Significant Factors	Tolerance Analysis
Quantify Design Relationships	Design Summary
Identify & Prevent Potential Design Process Failure Modes	
Identify Design Alternatives	
Analyze Summary	
Verify Functionality - How will we demonstrate success?	
Predict Product Life Characteristic	
System Reliability	
Demonstrate Attainment of Design Goals and Critical to	
Quality (CTQ)	
Demonstrate CCR Fulfillment	
Verify Summary	
Certfication Process	
The certification process for Green Belt consists of three steps:	
1. Complete the Green Belt training	
2. Pass the Green Belt test	
3. Lead and successfully complete one Green Belt project. Project will be assessed for business impact	
(financial and/or "soft-dollar" impact) as well as Six Sigma skill demonstration	



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