

Design for Six Sigma (DFSS) Green Belt Training & Certification Program

Program Participants

Participants will learn a structured methodology and comprehensive set of tools specifically for new product development. Product and manufacturing engineers are ideal candidates for this program.

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.

Our Design for Six Sigma program provides a practical approach to produce 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 development. It consists of five phases.

- Define objectives
- Measure CTQs
- Analyze Alternatives
- Design Solution
- Verify Performance

Program Duration: 6 days

Software Requirement: Participants need to bring a laptop preloaded with Minitab and Crystal Ball Software.

Training Contents

Define Phase

Define Requirements

- Define Business Opportunity.
- Introduction to Monte Carlo Simulation
- Capture Customer Requirements.

Measure Phase

Measure Performance

- Identify Functional Requirement
- Evaluate Measurement Systems
- Perform Process Capability

Analyze Phase

Analyze Relationships

- Quantify Impact of Design Factors on CCRs.
- Quantify Issues & Determine Significant Factors.
- Quality Design Relationships.
- Identify and Prevent Potential Design Process Failure Modes
- Identify Design Alternatives

Design Phase

Design Solution

- Design of Experiments
- Response Surface Methodology
- Robust Design
- Tolerance Analysis

Verify Phase

Verify Functionality

- Reliability Prediction
- System Reliability
- Demonstrate CCR Fulfillment
- Demonstrate Attainment of Design Goals and CTQs.

Next Step

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