

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 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 development. It consists of 5 phases:

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

Program Duration: 15 days spread over a period of 3 months (i.e. 5days x3 months).

Training Contents

Define Opportunity - What is important?

- Defining Business Opportunity
- Introduction to Monte Carlo Simulation
- Defining Customer Requirements
- Basic Statistics

Measure Performance - How are we doing?

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

Analyze Opportunity - What is wrong?

- Quantify Impact of Design Factors on Critical Customer Requirements (CCRs)
- Quantify Issues & Determine Significant Factors
- Quantify Design Relationships
- Identify & Prevent Potential Design Process Failure Modes
- Identify Design Alternatives

Design Solution

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

Verify Functionality

- Reliability Prediction
- Demonstrate Customer Requirement Fulfilment
- Demonstrate Attainment of Design Goals.

Next Step

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For more information please visit

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