



## **Motorola University Six Sigma Open Training Program**

### ◆ MOTOROLA UNIVERSITY :

For more than 20 years, Motorola University has been a driving force of change in Motorola. Motorola University's Commitment to training and consulting extends beyond internal employees to include our customers, suppliers and clients from the corporate world. To provide Best-in-Class practice for our employees, customers, suppliers, partners and other potential customers, as a change agent through breakthrough performance improvement with sustainable financial results.

### **Course Name**

**Six Sigma Blackbelt Program (15 days)**

### **Course Description**

Note: The complete Black Belt program consists of 15 days of training. Participants are required to attend 15days-course independently.

#### Course Description

The course is structured around the DMADV process but also addresses DMAIC. Although candidates do not need to be statisticians, they need to use statistical tools to apply Six Sigma and lead business improvement projects

**Day 1 to Day 5:** Minitab, DMAIC, Process Mapping, Customer req'ts, KANO analysis, Kansei Engineering, factor analysis, Principles of Influence; Translate VOC into CCRs, QFD, Measurement techniques, sampling, MSA, and Process Capability Metrics

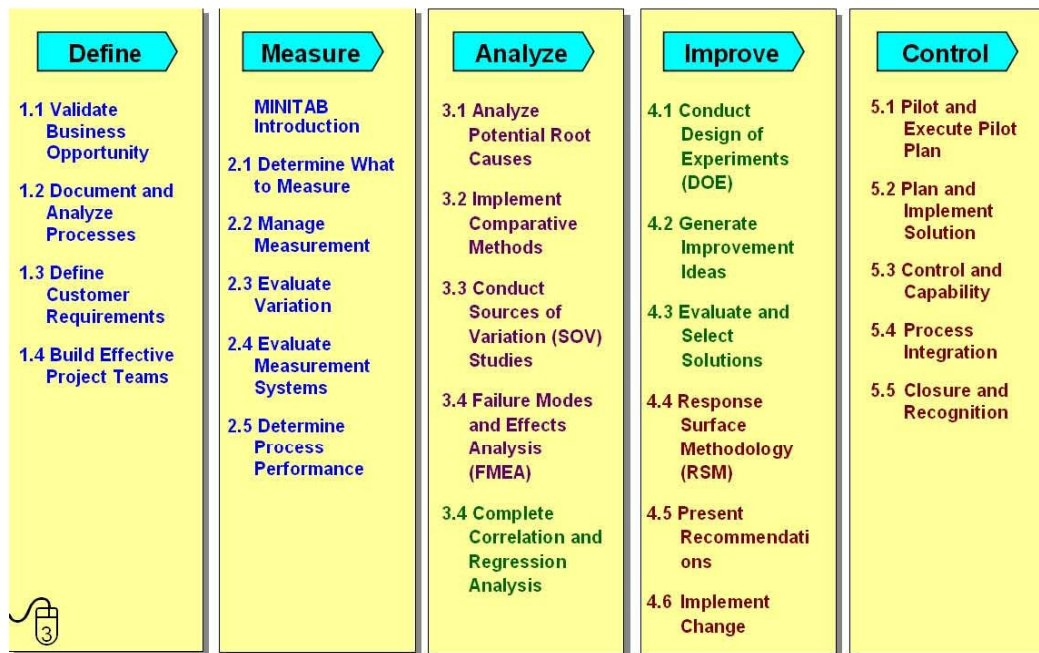
**Day 6 to Day 10:** Analysis techniques, sampling, hypothesis testing, confidence intervals, Quantify impact of Design factors on CCRs, transfer functions, Monte Carlo simulation, Analysis of SOV, MSA, Multi-vari analysis, ANOVA; Quantifying Design Relationships, simple & multiple regression analysis, residual analysis & GLM, Translation of CCRs into Functional req'ts, revisit QFD, Identify Design Alternatives, brainstorming, analogies, (TRIZ) and introduction to DOE

**Day 11 to Day15:** Design phase, DOE Screening Optimization & Robust Design, Optimizing Parameter selection, RSM, Relation of variability of CCRs to variability in Design Parameters, Tolerance Analysis, Sensitivity analysis; Verify phase, FMEA, and other DfX technologies



## Course Objectives

Apply Digital Six Sigma to identify, focus on, and address the Vital Few Xs  
Determine how to best meet business opportunities using DSS techniques  
Lead DSS teams through DMAIC/DMADV/DMADDD applications  
Apply Six Sigma tools to maximum benefit & impact  
Drive positive cultural change: Q x A = E



## Service

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