Module-1: Overview

Overview of Six Sigma, DMAIC Methodology Overview, Financial Benefits of Six Sigma, The Impact of Six Sigma to The Organization, The Six Sigma Language, The DFSS

Module-2: Define

Project Definition, Project Charter, Developing a Business Case, Chartering a Team, Defining Roles and Responsibilities, Gathering Voice of the Customer, Support for Project, Translating Customer Needs into Specific Requirements (CTQs), SIPOC Diagram, Define Phase Review

Module-3: Measure

Process Mapping, Data Attributes (Continuous Versus Discrete), Measurement System Analysis, Data Collection Techniques, Data Collection Plan, Understanding Variation, Measuring Process Capability, Calculating Process Sigma Level, Visually Displaying Baseline Performance, Measurement Phase Review

Module-4: Analyze

Visually Displaying Data (Histogram, Run Chart, Pareto Chart, Scatter Diagram), Detailed (Lower Level) Process Mapping of Critical Areas, Value-Added Analysis, Cause and Effect Analysis (a.k.a. Fishbone, Ishikawa), Affinity Diagram Data Segmentation and Stratification, Verification of Root Causes, Determining Opportunity (Defects and Financial) for Improvement, Analyze Phase Review

Module-5: Improve

Brainstorming, Multi-Voting, Quality Function Deployment (House of Quality), Selecting a Solution, Failure Modes and Effects Analysis (FMEA), Poka Yoke (Mistake Proofing of New Process), Piloting the Solution, Implementation Planning, Improve Phase Review

Module-5: Control

Assessing The Results of Process Improvement, Statistical Process Control (SPC) Overview, Developing a Process Control Plan, Documenting the Process, Control Phase Review

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