

Six Sigma Course Syllabus

1. Course Introduction

Course Introduction

2. Six Sigma and Organizational Goals

- Introduction to Six Sigma and Organizational Goals
- Six Sigma and Organizational Goals
- Lean Principles in the Organization
- Design for Six Sigma (DFSS) Methodologies
- Summary to Six Sigma and the Organization

3. Define Phase

- Introduction to Define Phase
- Project Identification
- Voice of the Customer (VOC)
- Project Management Basics
- Management and Planning Tools (Apply)
- Business Results for Projects
- Team Dynamics and Performance
- Summary of Define Phase
- Project 1

4. Measure Phase

- Introduction to Measure Phase
- Process Analysis and Documentation (Create)

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- Probability and Statistics
- Collecting and Summarizing Data
- Statistical Distributions (Understand)
- Measurement System Analysis (MSA)(Evaluate)
- Process and Performance Capability
- Summary of Measure Phase
- Project

5. Analyze Phase

- Introduction to Analyze Phase
- Hypothesis Testing
- Exploratory Data Analysis
- Summary of Analyze Phase
- Project

6. Improve Phase

- Introduction to Improve Phase
- Design of Experiments (DOE)
- Root Cause Analysis (Analyze)
- Lean Tools08:49Preview
- Selecting a Solution
- Summary Improve Phase
- Project

7. Control Phase

- Introduction to Control Phase
- Statistical Process Control (SPC)
- Control Plan (Apply)
- Lean Tools for Process Control
- Summary of Control Phase
- Project

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