

Six Sigma Lean Introduction

Length: 1 Day

Summary: In this course, students will identify the fundamental concepts of Lean Six Sigma.

Who Should Attend: This course is intended for any level of employee and various levels of management that intend to take an active role in the Lean Six Sigma methodology.

COURSE CONTENT

Fundamentals of Lean Six Sigma

- Describe Lean Six Sigma
- Identify the Elements of Six Sigma
- Identify the Elements of Lean
- Relate Lean Six Sigma to Other Quality Methodologies

Describing a Lean Six Sigma Organization

- Determine the Need for a Customer-Driven Organization
- Identify CTQs from the VOC
- Identify Lean Six Sigma Projects
- Identify Lean Six Sigma Teams and Roles in an Organization
- Identify Lean Six Sigma Methodologies

Conducting Lean Six Sigma DMAIC Phase 1: The Define Phase

- Describe the Define Phase
- Draft a Project Charter
- Draft an SIPOC Diagram

Conducting Lean Six Sigma DMAIC Phase 2: The Measure Phase

- Describe the Measure Phase
- Create a Process Map
- Create a Fishbone Diagram
- Create the Cause and Effect Matrix
- Gather Data

Conducting Lean Six Sigma DMAIC Phase 3: The Analyze Phase

- Describe the Analyze Phase
- Perform Basic Statistical Calculations
- Perform Correlation
- Create a Value Stream Map
- Identify Wastes in a Process
- Perform Process Value Analysis
- Perform Pareto Analysis

Conducting Lean Six Sigma DMAIC Phase 4: The Improve Phase

- Describe the Improve Phase
- Establish a Pull System
- Generate Ideas for Solutions
- Assess Risks
- Pilot Solutions

Conducting Lean Six Sigma DMAIC Phase 5: The Control Phase

- Describe the Control Phase
- Draft a Process Management Plan
- Perform SPC

Describing the Implementation of Lean Six Sigma

- Identify the Essentials of Lean Six Sigma Implementation
 - Describe Lean Six Sigma for Service Organizations
 - Describe DMAIC Failure Modes
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