

# Lean Six Sigma Green Belt Training & Certification Program

## Program Participants

Department Managers, Project Leaders, Senior officers, Green Belt candidate and anyone who desires an understanding of Lean Six Sigma Principles and skills.

## Program Overview

Lean Six Sigma training combines lectures, group exercises, case studies and simulation to give participants the opportunity to follow a structured improvement methodology. Using the DMAIC model, it teaches participants how to apply Lean principles and tools in conjunction with the Six Sigma rigor and methodology to achieve rapid and significant improvements.

Upon completion, the participants will be able to understand

- Simultaneously improve both quality and speed by combining Lean with Six Sigma.
- Understand the Lean Six Sigma methodology and improvement processes.
- Define, scope and work on Lean Six Sigma Projects.
- Construct a Value Stream Map and apply the map to identify improvement opportunity.
- How to recognize waste?
- Incorporate a comprehensive set of quality and lean tools to problem solving.
- Implement quick improvements using a structured Kaizen event.
- Learn to mistake proof a process to reduce rework.
- Apply SPC and visual process management to monitor the progress.
- Use Minitab to enhance analysis for process improvement projects.

The DMAIC model is a systematic method for analyzing and improving business processes. It consists of five phases.

- Define
- Measure
- Analyze
- Improve
- Control

Program Duration: 5 days

## Training Contents

### Day 1 (Topics)

#### **Lean Six Sigma Foundations**

- Introduction to Lean Six Sigma
- Lean Six Sigma History
- Lean Six Sigma Metrics
- Lean Six Sigma Overview
- Effective team deployment
- Lean Simulation
- Lean Six Sigma DMAIC Overview

### Day 2 (Topics)

#### **Define Opportunity - What is important?**

- Validate business opportunity
- Define customer requirement.
- Develop Team charter
- Document and analyze processes.
- Value stream Mapping

### Day 3 (Topics)

#### **Measure Performance - How are we doing?**

- Determine what to measure
- Manage management
- Understanding basic concept of variation
- Evaluate measurement system
- Determine process performance.

#### **Analyze Opportunity**

- Identify potential root causes

### Day 4 (Topics)

#### **Analyze Opportunity**

- Implement comparative methods
- Conduct of Source of Variation (SOV) study
- Conduct correlation and regression study

#### **Improve Performance**

- Generate, select and pilot solutions
- Develop "to be" Process Map
- FMEA
- Introduction to improvement methods.

### Day 5 (Topics)

#### **Control Performance - How do we guarantee performance**

- Process Control System
- Mistake Proofing
- Implement Statistical Process Control (SPC)
- Visual Management

## Next Step

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