



Lean Six Sigma Green Belt Training & Certification

PROGRAM DESCRIPTION

This forty-hour training and certification course aims to train and certify individuals to be Lean Six Sigma Green Belts. In addition to the forty-hour training & workshop, two-day coaching & consultation is allotted to provide guidance in the project management of sequential phases of rendering a Lean Six Sigma project. This program is designed to help the organization to improve its business performance.

PROGRAM DETAILS

Course Name : Lean Six Sigma Green Belt
Training & Certification
Duration : Forty (40) hours
Ave. Class Size : Eighteen (18)

PREREQUISITES

Anyone who would like to learn more about lean six sigma and ready to start and close a green belt project.





CERTIFICATION REQUIREMENTS

To become a Certified Lean Six Sigma Green Belt, candidates must meet the following requirements:

- ✓ Achieved full attendance (40 hours) in the Lean Six Sigma Green Belt Course (25% weight)
- ✓ Successfully passed the online examination (30% weight)
- ✓ Successfully completed and submitted a LSSGB project (45% weight)

The weighted average score shall be at least **80%** to be a **Certified Lean Six Sigma Green Belt**.

WHO SHOULD ATTEND?

- Professionals seeking process improvement skills
- Managers and team leaders
- Quality and operations professionals
- Anyone interested in Lean Six Sigma methodologies





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COURSE OUTLINE

DAY 1 & 2

INTRODUCTION

- Certification process
- LSS Belts, Roles and Responsibilities
- Lean Six Sigma Way vs. Traditional Approach
- History and Overview of Lean
- History and Overview of Six Sigma
- Lean and Six Sigma
 - Efficiency and Effectiveness
 - Accuracy and Precision
 - Complementary and Contrast of Lean and Six Sigma
 - Overview of DMAIC Cycle
- Summary

DEFINE PHASE

- Overview of Deliverables
- Identifying Customer Needs
- Identifying LSS Project
- Voice of the Customer/Business
- Categorizing VOC
- VOC to CTQ
- Linking Project Y to Business Objective
- Project Selection
- Developing Project Objective
 - Developing project charter
 - Defining scope and boundaries
- Understanding the current Process
 - SIPOC
 - High Level Process Map
 - Detailed Process Map
- Identifying Quick Wins

DAY 3 & 4

MEASURE PHASE

- Measure Phase Roadmap
- Overview of Deliverables
- Introduction to MINITAB
- Introduction to MS Excel Functions
- Developing Operational Definition
- Basic Statistics
 - Measure of central tendency
 - Measure of dispersion
- Identifying what and how to measure
 - Identifying output, process and input indicators
 - Understanding data types
 - Sampling
 - Developing data collection plan
 - Measurement System Analysis
 - Baselining performance
 - Run Charts
 - Summarizing performance
 - Basic Statistics
 - Measure of central tendency
 - Measure of dispersion
 - Checking of shape and stability
 - Calculating DPU and DPMO
 - Calculating Sigma Level
 - Summary





DAY 5 & 6

ANALYZE PHASE

- Analyze Phase Roadmap
- Overview of Deliverables
- Data Door and Process Door Approach
- Identifying Root Causes
 - Value Stream Mapping
 - Fish Bone / Ishikawa Diagram
- Prioritizing Root Causes
 - Failure Mode and Effects Analysis
 - Pareto Chart
 - Box Plot
- Validating Root Causes
 - Comparative Method
 - Correlation and Regression
 - Hypothesis testing
- Summary

DAY 7 & 8

IMPROVE PHASE

- Improve Phase Roadmap
- Improve Phase Deliverables
- Intro and High-level Overview of Design Thinking
- Solution Identification
 - Brainstorming
 - Six Thinking Hats
 - SCAMPER
 - ESSMA
 - Design Thinking Ideation Tools
 - Improvement Action Plan
- Solution Implementation
- Result Evaluation

CONTROL PHASE

- Control Phase Road Map
- Control Phase Deliverables
- Standardize and Sustain Improvement
- Confirm Goal Attainment
- Control Charts
- Project Closure
- Summary

Project Overview Requirements
Lean Six Sigma Green Belt Exam

