ELEVATE
SIX SIGMA

G & L Elevate Training Center

Lean Six Sigma Green Belt Training & Certification

PROGRAM DESCRIPTION

This thirty-six-hour training and certification course aims to train and certify individuals to be Lean Six Sigma Green Belts. In addition to the thirty-six-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 : Thirty six (36) 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.

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CERTIFICATION REQUIREMENTS

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

✓ Achieved full attendance (36 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

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 2

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 3

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 4

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