Lean Six Sigma Green Belt

Summary

Length: 32 hours Level: Experienced

The accelerated Lean Six Sigma Green Belt program and methodology allows students to complete certification requirements faster than traditional Six Sigma and Lean training programs. Successful candidates will be awarded the Lean Six Sigma Green Belt certification from Lean Sigma Corporation after passing the included certification exam. The certification exam is included in this course and you can take the exam at your convenience after passing section quizzes. You must complete the exam within 6 months of class. This course may earn a Credly Badge.

Learning Objectives

This course, combined with a Green Belt test and demonstrable application of the tools will lead to Green Belt certification.

Course Outline

1. **Overview and Foundation of Lean and Six Sigma (DMAIC)**

   Introduction to Lean Six Sigma Principles and Terminology
   Roles and Responsibilities in a Lean Six Sigma Organization
   5S (Sort, Set in Order, Shine, Standardize, and Sustain)
   7 Wastes (Defects, Overproduction, Transportation, Waiting, Inventory, Motion, and Processing)

2. **Define Phase-**

   harters
   Project Planning
   Voice of the Customer
   Stakeholder Analysis
   Team Building
   SIPOC
   Swimlane Process Map
   Tree Diagram

3. **Measure Phase-**

   Data Collection Plan
   Process Mapping
   Value Stream Analysis
   Basic Tools in Six Sigma
   Failure Modes and Effects Analysis (FMEA)
   Measurement and System Analysis
   Process Capability
   Introduction to Minitab and Advance Excel

4. **Analysis Phase-**

   Process Analysis
   Cause and Effect Diagrams
   Multi Vari Charts
   Hypothesis Testing
   Utilizing Minitab and Advance Excel

5.   **Improvement Phase-**

Brainstorming
Impact Effort Matrix
FMEA
Weighted Criteria Matrix
To-Be-Process Maps

6.   **Control Phase-**

Introduction to Control Charts
Control Plan
Response Plan
Maintaining Solution

7.   **Green Belt Test**

Audience

The Six Sigma Green Belt course is suitable for those who want to grow with Six Sigma. Little or no experience is needed to participate in this program.

Prerequisites

There are no prerequisites for this course.