

Introduction

This highly impactful program effectively trains participants to become Lean Six Sigma Green Belt professionals. By integrating Lean principles with statistical analysis, this certified Lean Six Sigma Green Belt course enhances essential skills for improving business processes to a world-class standard.

Participants in this certification course will enhance operational efficiency, engage employees, reduce operational costs, improve their company's industry standing, and strategically leverage business excellence. A key focus of this comprehensive training is creating value for customers.

Target Audience

- Quality Assurance Professionals
- Managers, Supervisors, and Professionals interested in implementing the Six Sigma approach

Course Goals

By the end of this Lean Six Sigma Green Belt certification course, participants will be able to:

- Understand the foundational principles of the Lean Six Sigma process.
- Deploy Six Sigma effectively through teamwork to improve business operations.
- Learn the fundamentals of Lean methodology and Six Sigma analysis in business processes.
- Integrate Lean Six Sigma principles to control processes, minimize variations, and reduce costs.
- Develop the skills and behaviors needed to implement Lean Six Sigma comprehensively.
- Understand how to leverage Lean Six Sigma as a strategic business tool.
- Gain awareness of Lean Processing and Six Sigma techniques aimed at reducing operational expenses.
- Enhance profit margins by controlling process variations and improving process stability and control.
- Upgrade the professional standard from "average" to "exceptional" through the effective application of Lean Six Sigma tools.

Key Competencies

- Effective deployment of Six Sigma
- Skilled problem-solving
- Critical thinking
- Proficiency in applied statistics
- Expertise in Lean Green Belt principles

Course Content

Unit 1: Introduction and Define Phase of Lean Six Sigma Green Belt

- Understanding the concept of Six Sigma
- The historical background of Six Sigma
- Roles and responsibilities within Six Sigma
- Understanding the Cost of Poor Quality (COPQ)
- Identifying the Voice of the Customer and Critical to Quality (CTQ)
- Key Six Sigma metrics
- Project selection methods
- Formulating a project charter and problem statement
- Creating SIPOC diagrams
- Using Pareto analysis for effective project scoping
- Engaging with case studies relevant to the material

Unit 2: Measure Phase of Lean Six Sigma Green Belt

- Introduction to Six Sigma calculations
- Learning about process capability indices

- Exploring statistical analysis using Minitab
- Understanding different data types and basic statistics
- Planning for efficient data collection
- Learning sampling techniques
- Analyzing variables that affect processes
- Developing a measurement plan
- Conducting Measurement Systems Analysis (MSA)
- Analyzing process capability
- Performing normality analysis (NA)

Unit 3: Analyze Phase of Lean Six Sigma Green Belt

- Overview of the seven basic quality tools
- Statistical Process Control (SPC) and control charts
- Selecting critical variables for process control
- Setting appropriate control charts
- Strategies for process mapping
- Conducting qualitative analysis
- Using Failure Mode and Effects Analysis (FMEA) to identify potential risks

Unit 4: Improve and Control Phases of Lean Six Sigma Green Belt

- Fundamentals of graphing techniques
- Creating and interpreting scatter plots
- Utilizing regression analysis for process modeling

- Examining advanced process modeling techniques
- Learning about controlled experiments design
- Implementing Six Sigma control plans
- Evaluating and selecting the best solutions
- Introduction to hypothesis testing
- Conducting pilot tests for proposed solutions
- Completing projects and transitioning control

Unit 5: Lean Thinking and Six Sigma

- Defining Green Belt Lean principles
- Embracing lean thinking
- Identifying and eliminating different types of waste (MUDA)
- Understanding the distinction between Lean and Six Sigma philosophies
- Introduction to Lean Toolbox
- Implementing a visual factory and applying 5S methodology
- Error-proofing processes using Poka Yoke techniques

What is Lean Six Sigma Green Belt Training?

Lean Six Sigma Green Belt training provides a certified path for professionals seeking to enhance their skills in quality management and process improvement.

By participating in Lean Six Sigma Green Belt training or enrolling in a Lean Six Sigma Green Belt course near you, you can earn a valuable Lean Six Sigma Green Belt certification.

This training ensures you have the knowledge and tools to drive process improvements and deliver significant value to your organization.



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