MERCURY

# Lean Six Sigma Green Belt Training Course

15 – 19 February 2027
Geneva (Switzerland)



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# Lean Six Sigma Green Belt Training Course

**Ref:** 1133_334423 **Date:** 15 – 19 February 2027 **Location:** Geneva (Switzerland) **Fees:** 6500 Euro

## Introduction

This high-impact program skillfully trains participants to become Lean Six Sigma Green Belt professionals. Integrate the principles of green belt lean processing and statistical analysis; this certified Lean Six Sigma Green Belt course enhances core competencies in World-Class business processes.

Participants in the certified Lean Six Sigma Green Belt course will increase operational effectiveness, engage employees, reduce operating expenses, improve industry reputation, and strategically leverage business excellence.

Creating customer value is a focal point of this comprehensive Lean Six Sigma Green Belt certification training course.

## Targeted Groups

- Quality assurance professionals.
- Managers, supervisors, and professionals seeking to implement the Six Sigma approach.

## Course Objectives

Participants of this Lean Six Sigma Green Belt certification course will be capable of the following:

- Understanding the foundation of the Lean Six-Sigma process.
- Deploying Six Sigma effectively through teamwork to improve business operations.
- Learning the basics of Lean methodology and Six Sigma analytics within business processes.
- Integrating Lean Six Sigma principles to control processes and minimize variations, thus reducing costs.
- Acquiring an understanding of the skills and behaviors necessary to implement Lean Six Sigma fully.
- Recognizing how to exploit Lean Six Sigma as a strategic business tool.
- Gaining an awareness of Lean Processing and Six Sigma techniques to focus on reducing operational expenses.
- Enhancing profit margins by controlling process variation and boosting active control and stability.
- Upgrading the professional standard from "normal" to "excellent" through the adept application of Lean Six Sigma tools.

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## Targeted Competencies

- Effective deployment of Six Sigma.
- Skilled problem-solving.
- Critical thinking.
- Proficiency in applied statistics.
- Expertise in green belt lean principles.

## Course Content

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

- Grasping the concept of Six Sigma.
- Historical perspective of Six Sigma.
- Roles and responsibilities within Six Sigma.
- Understanding the Cost of Poor Quality COPQ.
- Identifying the Voice of the Customer/Critical to Quality CTQ.
- Fundamental Six Sigma metrics.
- Project selection methodologies.
- Formulating the project charter and problem statement.
- Understanding and creating SIPOC diagrams.
- Employing "Pareto" analysis for effective project scoping.
- Engaging with relevant case studies.

### Unit 2: Measure Phase of Lean Six Sigma Green Belt

- Introduction to Six Sigma-level calculations.
- Acquaintance with process capability indices.
- Exploring "Minitab" for statistical analysis.
- Grasping different types of data and fundamental statistics.
- Planning for efficient data collection.
- Learning data sampling techniques.
- Analyzing Xs that affect process Ys.
- Establishing a measurement plan.
- Conducting measurement systems analysis MSA.
- Delving into the advanced process capability.
- Carrying out normality analysis NA.

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## Unit 3: Analyze Phase of Lean Six Sigma Green Belt

- An overview of the seven classic quality tools.
- Statistical process control SPC and control charts.
- Selecting vital variables for process control.
- Analyzing and setting appropriate control charts.
- Process mapping strategies.
- Undertaking qualitative analysis QA.
- Applying failure mode effect 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 process modeling regression.
- Examining advanced process modeling techniques.
- Learning about designing controlled experiments.
- Implementing Six Sigma control plans.
- Assessing 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.
- Understanding and eliminating various types of waste MUDA.
- Distinguishing between Lean and Six Sigma philosophies.
- Introduction to Lean Toolbox.
- Establishing a visual factory and implementing 5S.
- Error-proofing processes with Poka Yoke tactics.

# What is Lean Six Sigma Green Belt Training?

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

Engaging in a Lean Six Sigma Green Belt training program or choosing a Lean Six Sigma Green Belt training near you can lead to obtaining a valuable Lean Six Sigma Green Belt certificate.

The Green Belt Lean, Six Sigma training ensures you have the knowledge and tools to drive process improvements and deliver significant organizational value.