



Six Sigma Green Belt

20 - 24 Jul 2025
Cairo (Egypt)



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Ref.: 15375_305784 **Date:** 20 - 24 Jul 2025 **Location:** Cairo (Egypt) **Fees:** 3000 **Euro**

Introduction:

The qualification required to advance your knowledge and get you closer to becoming a qualified project manager is Lean Six Sigma Green Belt training. The five-day training program imparts crucial knowledge for managing a project management team and fostering teamwork. The path to selecting the ideal projects at the ideal time is paved with Lean Six Sigma training. The Lean Six Sigma Green Belt certification will help you at the project level with data gathering and thorough analysis for the black belt finished applicants. After finishing this Lean Six Sigma training course, you will be able to manage green belt projects and teams and show that you have a thorough grasp of all Six Sigma principles. Being able to lead a project management team demonstrates self-assurance, leadership talents, and problem-solving skills. This appealing certification covers the key facets of a management function, making it a desirable certificate.

Lean manufacturing and Six Sigma are the two ideas we will be using in this training program. The two areas of focus combine to create the Lean Six Sigma Green Belt course, which focuses on providing customers with the highest quality and value possible. A leader must take care of his team members and ensure that they have the right temperament and character when responding to customers. The course clarifies terms like critical customers, stakeholder analysis, and business care, among many others. This training program's emphasis on improvement through the elimination of flaws and assistance in advancing your level of management quality is very significant.

Course Objectives:

- Set goals for success and structure initiatives objectively.
- Know how to examine measurement systems and process measurements.
- Use statistical analysis that is both reliable and simple to comprehend their procedures.
- Use root-cause problem solutions to get rid of issues from the root.
- Create, evaluate, and improve processes that are aimed at achieving their objectives.
- Develop a strategy to maintain process upgrades over time.

Targeted Groups:

- Quality System Managers.
- Supervisors.
- Operations Managers.
- Finance and Commercial Managers, and professionals who want to apply the methodologies and quality control process within an organization.

Targeted Competencies:

- Statistical Analysis Skills.
- Process Improvement Techniques DMAIC.
- Project Management Abilities.
- Quality Management Principles.
- Problem-solving proficiency.
- Team Leadership and Collaboration.
- Change Management Acumen.
- Effective Communication Skills.
- Data-Driven Decision Making.
- Continuous Improvement Mindset.

Course Content:

Unit 1: Introduction to Six Sigma and DMAIC:

- Overview of Six Sigma and Quality Concepts: Introduction to Six Sigma's history, principles, and benefits for quality improvement.
- Define Phase:
 - Project Selection and Charter: Understanding how projects are selected and defined with clear objectives and stakeholder involvement.
 - Voice of the Customer VOC and Critical to Quality CTQ: Importance of capturing customer requirements and defining critical quality parameters.
- Measure Phase:
 - Data Collection and Measurement System Analysis MSA: Techniques for accurate data collection and assessing measurement system reliability.
 - Process Mapping and Variance Analysis: Methods for mapping processes and analyzing variations to identify improvement opportunities.

Unit 2: Analyze Phase and Statistical Tools:

- Analyze Phase:
 - Root Cause Analysis and Hypothesis Testing: Techniques to identify root causes of issues and validate hypotheses.
 - Design of Experiments DOE: Understanding DOE for optimizing process settings and factor interactions.
 - Regression Analysis and Correlation: Using regression and correlation to analyze relationships between variables.

Unit 3: Improve Phase and Control Phase:

- Improve Phase:
 - Lean Principles and Value Stream Mapping: Application of Lean principles and value stream mapping to eliminate waste.
 - Kaizen Events and Error Proofing Poka-Yoke: Utilizing Kaizen events and error-proofing techniques for continuous improvement.
 - Solution Implementation and Validation: Strategies for implementing and validating solutions.
 - Project Management and Change Control: Project management aspects including planning and change control.
- Control Phase:
 - Statistical Process Control SPC and Control Plans: Implementing SPC methods and control plans to monitor and maintain process stability.
 - Monitoring and Sustaining Improvements: Methods for ongoing monitoring of improvements and ensuring sustainability.
 - Final Project Review and Closure: Importance of final reviews, documentation, and project closure.

Unit 4: Project Work, Review, and Certification:

- Project Work and Data Analysis: Practical application of Six Sigma tools and techniques through project work.
- Project Review and Mentorship: Guided reviews and mentorship for project improvement.
- Reporting and Documentation: The importance of accurate reporting and documentation in conveying project outcomes.
- Certification Assessment and Exam Preparation: Preparation for Six Sigma certification assessments.
- Graduation and Closing Ceremony: Celebrating completion and recognizing achievements.

Unit 5: Quality Principles and Professional Development:

- Overview of Quality Principles in Six Sigma: Summary of key quality principles supporting Six Sigma.
- Importance of Continuous Improvement: Reinforcing the value of continuous improvement in organizational excellence.
- Professional Development Opportunities in Six Sigma: Insights into career pathways and growth opportunities within Six Sigma.



**Registration form on the :
Six Sigma Green Belt**

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Complete & Mail or fax to Mercury Training Center at the address given below

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Position:

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Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng):

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