

Lean Six Sigma Green Belt Certification



The GSDC Lean Six Sigma Green Belt Certification is a well-respected certification that acknowledges professionals' proficiency in the Lean Six Sigma methodology. The certification exam evaluates a candidate's knowledge and ability to apply Lean Six Sigma principles, tools, and techniques to practical situations.

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ABOUT CERTIFICATION

To earn this certification, individuals must pass the GSDC Lean Six Sigma Green Belt Certification exam, which is ideal for professionals engaged in process improvement, quality management, and project management.

Obtaining this certification demonstrates an individual's commitment to professional development and continuous improvement, validating their expertise in Lean Six Sigma.

The GSDC Lean Six Sigma Green Belt Certification is a valuable certification that can broaden career horizons and help professionals contribute to their organizations' growth.

Whether you're just starting your [lean six sigma yellow belt certification](#) journey or aiming for the top, we have you covered with our Yellow Belt certification for beginners and our esteemed [Six Sigma Black Belt Certification](#) for the experts.

OBJECTIVES

After the successful achievement of Lean Six Sigma Green Belt Certification, professional mainly would be:

1. Develop a comprehensive understanding of Lean Six Sigma methodology, tools, and techniques.
2. Improve problem-solving and analytical skills for process improvement and quality management.
3. Gain expertise in data analysis and statistical methods for identifying and solving process problems.
4. Learn how to lead and contribute to process improvement projects on time and within budget.
5. Demonstrate commitment to professional development and continuous improvement in Lean Six Sigma.
6. Increase career opportunities and earning potential in process improvement, quality, and project management.

Our Accreditation:



The Global Skill Development Council (GSDC) is the leading third-party, Vendor neutral, international credentialing and certification organization. The Global Skill Development Council (GSDC) is proud to be ANSI Accredited Member. The American National Standards Institute (ANSI) is a private, non-profit organization that administers and coordinates the U.S. voluntary standards and conformity assessment system.

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COURSE SYLLABUS

1. Green Belt Six Sigma Introduction:

1. Six Sigma background and purpose
2. What Is Six Sigma?
3. Parameters
4. DMAIC
5. Focus on speed, productivity, quality, profitability
6. Breakthrough and continuous improvement
7. Importance of Voice of Customer
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2. Introduction to Lean:

- Principles of Lean Methodology
- The quality approach in Lean
- Strategy for Implementing Lean
- Metrics used in Lean
- Deployment of Lean thinking
- Creating a Roadmap for Lean Implementation
- Measuring progress in Lean implementation

3. Six Sigma Terms:

- DPMO
- Variation
- Process Capability
- Defect
- Unit
- Yield

4. Define Phase:

- Selecting and defining a Lean Six Sigma project
- Developing a Project Charter
- Creating a Current State Map
- Using the Kano model to understand customer needs
- Conducting a stakeholder analysis
- Capturing the Voice of the Customer
- Developing a Critical-to-Quality (CTQ) tree to define project goals

5. Measure Phase:

- Developing a Data Collection Plan
- Creating process maps to understand the flow of activities
- Using a prioritization matrix to focus on key areas
- Conducting sampling to capture representative data
- Performing Failure Mode and Effect Analysis (FMEA) to identify potential issues

- Creating Value Stream Maps (VSM) to understand the value-added and non-value-added activities
- Assessing process capability and calculating Process Sigma
- **6. Analyze Phase:**
- Brainstorming to generate potential causes
- Using Cause and Effect diagrams to analyze relationships
- Analyzing data with Control Charts and Frequency Plots
- Conducting Process Capability Analysis to assess the capability
- Using Pareto Charts to prioritize causes
- Conducting Hypothesis Tests to confirm assumptions
- Performing Regression Analysis to identify relationships
- Conducting Root Cause Analysis to identify underlying issues

7. Improve Phase:

- Identifying potential solutions to address issues
- Using brainstorming to generate ideas and selecting the best options to implement
- Developing a Weighted Criteria Matrix to evaluate options
- Creating a Gantt Chart to plan and schedule implementation
- Using Design of Experiments and Mistake Proofing techniques to improve processes
- Utilizing other tools for process improvement

8. Control Phase:

- Using Control Charts to monitor process stability
 - Assessing the final process capability to ensure goals are met
 - Implementing Quality Control measures to maintain performance
 - Creating a Control Plan to monitor and respond to process variations
 - Establishing Standardization practices to ensure consistency
 - Using Statistical Process Control (SPC) to manage and improve performance
 - Sustaining the change through ongoing monitoring and improvement efforts
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GSDC Technical Advisory Board :



The GSDC is the leading certification association which brings together innovative organizations and founding thought-leaders as Technical Advisors from over 40 countries to design curriculum on Blockchain, Devops, Six Sigma & Agile Certifications.

Our Future Information

Target Audience

- Senior Management (especially if the company intends to implement Lean Six Sigma)
- Team Leaders
- ITSM Process Manager
- Software Professionals
- Project Managers
- Quality Assurance Engineers
- Software Quality Assurance Team Members
- Management Students

Pre-requisites

There are no mandatory prerequisites for Lean Six Sigma Green Belt but below are few recommendations:

Recommended to have training on Lean Six Sigma through a qualified training institution.

Recommended to have Lean Six Sigma work Experience.

Find out more online at

www.gsdccouncil.org

