

Lean Six Sigma Black Belt Certification



The GSDC Lean Six Sigma Black Belt Certification shows that a person has a thorough mastery of all aspects of the six sigma body language and is ready to take on the challenges that come in that journey.



Lean Six Sigma Black Belt Certification

ABOUT CERTIFICATION

The Six Sigma methodology uses statistical ideas and techniques to identify anomalies or defects in a process.

Individuals who have successfully acquired Lean Six Sigma Black Belt certification have verified that they have a highly developed understanding of how to conduct, interpret and apply Lean Six Sigma.

Your career will benefit from the Six Sigma Black Belt certification since it will demonstrate that you have a thorough understanding of the leadership role within Six Sigma.

Your capacity to lead Six Sigma project execution will be demonstrated by your Black Belt certification, which will help you establish authority and trust in the field.

Start your Lean Six Sigma journey with our [Six Sigma Green Belt certification](#) or take it one step further with our intermediate [Six Sigma Yellow Belt certification](#) - either way, we've got it all.

Submit

OBJECTIVES

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

1. Develop sophisticated approaches and methods for tackling problems
2. Drive initiatives for process improvement to maximize effectiveness
3. Effectively manage and mentor project teams
4. Apply statistical analysis to find the causes at the root
5. Implement Lean Six Sigma techniques in businesses
6. Process simplification will cut waste and variability
7. Obtain huge cost savings and satisfy customers
8. Ensure ongoing, sustained process improvement

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. LSSBB OVERVIEW:

- Lean Six Sigma Black Belt Understanding and Significance
- Continuous Improvement and Continual Improvements
- An assortment of Black Belt Projects
- Lean Management
- Lean concepts in detail
- What is Six Sigma?
- Origination, Features, significance, roles, and responsibilities
- What is a Lean Six Sigma Black Belt?
- Features, significance, roles, and responsibilities
- Difference and approach toward success

2. DEFINE Phase: DMAIC Approach-

- Significance and Approach
- Business Hurdles and Requirements
- Rudiments like:
- Voice of Customer 'VOC'
- Voice of Business 'VOB'
- Voice of Process 'VOP'
- Transparency on the above subject
- Exercise to Understand
- Baseline Performance
- Project Charter
- SIPOC approach
- Process Mapping
- Kano Model
- Responsibility Accountability Consulting and Informed "RACI" matrix
- People Management Project associated Persons, Roles and Responsibilities Project Expectations Scheduling and Deliverables

3. MEASURE Phase: DMAIC Approach:

- Significance and Approach
- Significance of Right measurements
- Prioritization Matrix
- PFMEA: Potential Failure Mode & Effect Analysis
- Data Type
- Stratification
- The measure of Central Tendency & Dispersion
- Measurement System Analysis & Gage R&R
- Data Understanding
- Time Plots/ Run Charts

- Diagrams, Plots & Charts (Control Charts, Frequency Plots, Pareto Diagrams)
- Process Capabilities (Cp, Cpk, Pp, Ppk)
- Binomial Distributions & Poisson Distributions
- Sigma Calculation & Ratings
- Summary

4. ANALYSIS Phase: DMAIC Approach:

- Cause & Effect Diagram
- 5 Why Analysis
- Tree Diagram & Affinity Diagram
- Regression
- Multi-Vari Analysis
- Normality Test
- R-squared test
- Hypothesis testing
- Chi-Square Test
- Non-Parametric Test
- Analysis of Variance 'ANOVA'
- Confidence Intervals
- T-Test 'sample 1 & 2'

5. IMPROVE Phase: DMAIC Approach:

- Classification & Regression Trees
- Design of Experiments 'DoE'
- 2 level Full Factorial Design
- 3 level Full Factorial Design
- Taguchi Designs
- Orthogonal Designs
- Parameter design

6. CONTROL Phase: DMAIC Approach:

- Checklists
- Quality Control plan
- Process Change Management
- Standardization
- Documentation
- Monitoring - Ongoing Project
- Poka-Yoke
- Training Planning & Execution
- Central Limit Theorem
- Charts for control
- Kaizen
- 5 S Principles & Implementation
- Statistical Process Control



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 pre-requisite for Lean Six Sigma Black Belt certification 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

