

# Lean Six Sigma Green Belt Certification

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GSD Council Certified LEAN Six Sigma Green Belt is considered as a mark of quality excellence for candidates in industries. It assists certified candidates in advancing their career & helps in driving the culture and philosophy of an organization towards improvement with an approach of leading a team and mentoring the same.



## ABOUT CERTIFICATION

GSD Council Certification helps organization to develop leaders to take higher responsibilities with a systematic approach.

Lean Six Sigma Green Belt certification is an integrated program of learning of lean principles and six Sigma concepts/ methodology. To acquire the certificate one needs to complete the examination from GSD Council. Six Sigma is a methodological/ statistical approach in delivering high quality products, processes or services and lean is an approach in delivering high quality products in lesser time with optimal resources. So if integrated, Lean Six Sigma systematically approaches in reduction of defects level continuously with on-time delivery of products resulting customer's delight which is basically a continuous improvement towards excellence.

Green Belt Certification helps you to possess a thorough understanding of all aspects within the phases of D-M-A-I-C. He/She operates in support of or under the supervision of a Six Sigma Black Belt, analyzes and solves quality problems and is involved in quality improvement projects. These are the professionals who support the Black Belts in an effort, or who lead and execute process-level improvement projects.

## OBJECTIVES

After the successful achievement of LSSGB Certification, professional mainly would be:

1. Applying LSSGB in project which reflects increase in revenue or decrease in defects finally resulting in high customer satisfaction.
2. Able to manage, lead and execute a project inclined towards improvements.
3. Applying systematically DMAIC
  - Define
  - Measure
  - Analysis
  - Improvement
  - Control
4. Understanding and Analyzing business requirements (including process and products) using different tools and techniques learnt during course completion.

## 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.

# COURSE SYLLABUS

## Introduction to "Green Belt Six Sigma":

- ✓ Background
- ✓ What Is Six Sigma
- ✓ Parameters
- ✓ DMAIC

## Six sigma Terms:

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

## Define Phase:

- ✓ Project Charter
- ✓ Current State Mapping
- ✓ Kano Model
- ✓ Stakeholder Analysis
- ✓ Voice Of The Customer
- ✓ CTQ Tree

## Measure Phase:

- ✓ Data Collection Plan
- ✓ Prioritization matrix
- ✓ Sampling
- ✓ Failure Mode & Effect Analysis
- ✓ Process Capability & Process Sigma

## Analyze Phase:

- ✓ Brainstorming
- ✓ Cause and Effect diagrams
- ✓ Control Charts & Frequency Plot
- ✓ Process Capability Analysis
- ✓ Pareto Charts
- ✓ Hypothesis Tests
- ✓ Regression Analysis

## Improve Phase :

- ✓ Identifying Possible Solutions
  - Brainstorming
- ✓ Selecting Solutions to implement
  - Weighted Criteria Matrix
- ✓ Implementing Improvements
  - Gantt chart
- ✓ Evaluating The Improvements
  - Design of experiments • Mistake Proofing

## Control Phase :

- ✓ Control Charts
- ✓ Assessing the Final process Capability
- ✓ Quality Control
- ✓ Control Plan
- ✓ Standardization

## Handover and closure

## FAQ's

## Sample questions



## 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.

## Further Information:

**Target Audience** The program is designed to suit graduates and experienced professionals from a wide range of domains. Specifically, the program may be suited for:

- 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-requisit for LSSGB 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

**You may also be interested in:**

- **Lean Six Sigma**
- **DevOps Practitioner**

Find out more online at [www.gsdcouncil.org](http://www.gsdcouncil.org)