Lean Six Sigma Green Belt Practitioner Training

Duration: **5 Day**

BILGINC IT Academy
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- **Lead real DMAIC improvement projects that reduce waste and cost.**
- **Designed for professionals ready to drive process change within their organisation.**
- **Accreditation is based on projects that demonstrate measurable real-world improvement.**

Lean Six Sigma is a practical process improvement approach focused on delivering what customers truly value while making effective use of employee knowledge and experience.

Lean Six Sigma improvement projects aim to reduce the Cost of Poor Quality, increase process capability, shorten process cycle times, and remove waste. The overall goal is to deliver customer requirements more consistently and efficiently, leading to improved customer satisfaction.

The **Lean Six Sigma Green Belt Practitioner** course provides participants with the skills required to plan, manage, and complete real DMAIC improvement projects. The programme covers project planning, team-based problem solving, process analysis, and improvement strategies.

Training combines instructor-led learning with interactive group activities and practical exercises. Examples are primarily drawn from service-based environments to help learners relate the methods to real business situations.

The programme also includes a refresher of key Yellow Belt concepts. Participants who have previously completed Yellow Belt training are encouraged to gain several months of practical experience before progressing to Green Belt level.

Prerequisites

The main emphasis of this course is the practical application of Lean Six Sigma DMAIC methods to genuine improvement projects within the participant's own organisation.

There are two common entry routes.

Previous Yellow Belt Training

The Green Belt course revisits the core material covered at Yellow Belt level before building on it with more advanced tools and techniques.

Participants who have already completed Yellow Belt training are encouraged to apply the methodology in their workplace before attending Green Belt training. A period of approximately three months between the two courses can be beneficial.

No Previous Lean Six Sigma Training

Completion of Yellow Belt training is not mandatory. The Green Belt programme includes the foundational material normally covered at Yellow Belt level, allowing learners to enter directly at Green Belt.

Green Belt Project Preparation

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At Green Belt level, participants are expected to lead at least one genuine improvement project as part of the accreditation process.

For this reason, learners are encouraged to bring a potential Lean Six Sigma project from their own organisation to the course. Different aspects of the project can be reviewed during training, and guidance is provided to help determine whether the project is appropriate for Green Belt accreditation.

Participants should also arrive with an idea of a process or business problem that could benefit from improvement.

Who Should Attend

This course is particularly suitable for:

- Professionals who want to lead process improvement projects,
- Individuals responsible for improving quality and efficiency,
- Learners seeking to progress to Lean Six Sigma Green Belt level,
- Team leaders and specialists who want to deliver measurable improvements through real DMAIC projects.

What You Will Learn

By the end of this course, participants will be able to:

- Understand structured problem-solving and process improvement approaches,
- Plan and manage a real Lean Six Sigma DMAIC project,
- Identify Cost of Poor Quality and different forms of waste within a process,
- Structure a measurement system and select suitable metrics for quantitative improvement,
- Apply Root Cause Analysis and Value Analysis methods,
- Understand and evaluate process improvement strategies,
- Communicate effectively with key stakeholders and support organisational change,
- Use a broad range of common Lean Six Sigma improvement tools.

Training Outline

Introduction

- History and development of Lean Six Sigma
- Lean Six Sigma roles and responsibilities
- Understanding the Green Belt role
- Team structure within improvement projects

Define

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- Creating a Project Charter
- Problem Definition
- Setting project Goals
- Developing a Business Case
- Kano Model
- Voice of the Customer
- Critical to Quality (CTQ)
- Voice of the Process
- SIPOC
- Lean Six Sigma and Project Management
- Project Selection
- Define Tollgate

Measure

- Measurement Information Model
- Selecting appropriate metrics
- Basic Sampling concepts
- Yield and Defects
- Process Capability measures
- Developing a Process Baseline
- Measure Tollgate

Analyse

- Process Value Analysis
- Value Stream Mapping
- Root Cause Analysis
- Process Decomposition
- Cause and Effect Matrices
- Exploratory Data Analysis (EDA)
- Overview of Inferential Statistics for Root Cause Analysis
- Analyse Tollgate

Improve

- Generating solution ideas
- Brainstorming
- Six Thinking Hats
- Process Improvement Strategies
- Lean Principles
- Selecting appropriate solutions
- Risk Management
- Pilot Projects
- Quantifying and validating improvements
- Improve Tollgate

Control

- Sustaining improvements
- Statistical Process Control (SPC)
- Control Charts

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- Monitoring ongoing process performance
- Establishing control mechanisms
- Control Tollgate

Green Belt Project Application

Throughout the programme, participants have the opportunity to review a real improvement project from their own organisation through the DMAIC framework.

The aim is not simply to understand Lean Six Sigma tools, but to apply them to genuine business problems and develop the capability to deliver measurable improvements as a Green Belt practitioner.