

Lean Six Sigma Green Belt

Duration: 5 Days

Language: en

Course Code: PO3 - 116

Objective

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

- Understand Lean and Six Sigma principles and their role in operational excellence.
- Apply the DMAIC (Define – Measure – Analyze – Improve – Control) methodology to real projects.
- Use quantitative and problem-solving tools to identify root causes of defects and inefficiencies.
- Lead Green Belt-level improvement initiatives within cross-functional teams.
- Recognise the knowledge, skills, and strategic leadership required to progress toward Black Belt certification.

Audience

This course is ideal for:

- Process, Quality, and Operations Professionals.
- Industrial, Manufacturing, and Production Engineers.
- Project Managers and Continuous Improvement Specialists.
- Business Analysts and Service Delivery Leaders.
- Professionals seeking certification and career growth in Operational Excellence.

Training Methodology

The course uses case studies, simulations, data-analysis labs, and real project examples. Participants work through practical exercises to reinforce tool mastery, team leadership, and structured problem-solving.

Summary

This program provides a comprehensive and practical foundation in Lean Six Sigma Green Belt tools, methods, and improvement techniques, equipping participants to lead process optimisation projects and reduce operational variation and waste. The course focuses on mastering the DMAIC framework, applying statistical analysis, and driving measurable improvements within teams and business functions.

In addition, the course introduces the Black Belt Pathway, outlining the competencies, leadership capabilities, and analytical methods required to progress to the next certification level. Participants leave with the skills to support continuous improvement initiatives and the strategic roadmap to advance toward Black Belt expertise.

Course Content & Outline

Section 1: Lean Six Sigma Foundations

- The evolution of Lean Six Sigma in industry.

- Value, waste identification (Muda), and variation reduction.
- Roles and responsibilities: Yellow Belt → Green Belt → Black Belt → Master Black Belt.
- Linking continuous improvement to business strategy.

Section 2: DMAIC – Define & Measure Phases

- Project selection and project charter development.
- Voice of the Customer (VOC), CTQs, and process mapping.
- Data collection planning and sampling strategies.
- Key measurement concepts: baseline capability, variation, and accuracy.

Section 3: DMAIC – Analyze Phase

- Identifying root causes using Cause-and-Effect diagrams, 5 Whys, and FMEA.
- Statistical methods for problem analysis and hypothesis testing (intro level).
- Process bottleneck identification and flow inefficiencies.
- Prioritising improvements through impact assessment.

Section 4: DMAIC – Improve & Control Phases

- Selecting and testing improvement solutions.
- Introduction to design of experiments (DOE) principles.
- Visual management and standardised work systems.
- Control plans, dashboards, and sustainability of improvements.
- Documenting results and communicating project impact.

Section 5: Black Belt Pathway — Advancing Skills & Leadership

- Green Belt vs. Black Belt: scope, responsibilities, and analytical depth.
- Advanced statistical tools and Lean leadership behaviours.
- Leading large-scale cross-functional transformation projects.
- Coaching and mentoring improvement teams.
- Preparing for Black Belt certification: competency requirements and study roadmap.

Certificate Description

Upon successful completion of this training course, delegates will be awarded a Holistique

Training Certificate of Completion. For those who attend and complete the online training course, a Holistique Training e-Certificate will be provided.

Holistique Training Certificates are accredited by The CPD Certification Service (CPD), and are certified under ISO 9001 and ISO 29993 standards.

CPD credits for this course are granted by our Certificates and will be reflected on the Holistique Training Certificate of Completion. In accordance with the standards of The CPD Certification Service, one CPD credit is awarded per hour of course attendance. A maximum of 50 CPD credits can be claimed for any single course we currently offer.

Categories

Project Management, Quality & Productivity

Tags

DMAIC model, Lean Six Sigma, Green Belt, Black belt

Related Articles



Data Cleaning Best Practices: Unlocking The Power Of Accurate Data

Learn the importance of data cleaning and its benefits in enabling accurate decision-making.

Discover best practices to implement an effective data cleansing strategy and overcome common data issues.