

ASCB (E) UK ACCREDITED LEAN SIX SIGMA GREEN BELT

“Data-Driven Process Excellence Using Lean and Six Sigma Tools”

Schedule

Date	Venue	Fees (Face-to-Face)
01 – 05 Mar 2026	Doha, Qatar	USD 3495 per delegate

► Available delivery methods: Face-to-Face & Online Training

Introduction

Lean Six Sigma Green Belt certification equips professionals with the tools and techniques to lead process improvement initiatives and deliver measurable results. Combining Lean principles with Six Sigma’s DMAIC methodology, Green Belts play a vital role in eliminating waste, reducing variation, and enhancing quality and efficiency across business functions.

This intensive, ASCB (E) UK-accredited 5-day course provides a hands-on, project-focused learning experience. Participants will master statistical tools, process mapping, root cause analysis, and problem-solving techniques while gaining the confidence to drive continuous improvement in their organizations.

Objectives

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

- Apply DMAIC methodology to solve process-related problems
- Use Lean and Six Sigma tools for data-driven decision-making
- Conduct root cause analysis and implement sustainable solutions
- Analyze data with basic statistical tools and software
- Lead cross-functional improvement teams
- Support and report on Green Belt-level projects to senior management

Why Attend

- Gain a globally recognized ASCB (E) UK Green Belt certification
- Develop skills in analytical thinking, process improvement, and quality control
- Increase your value to your organization through measurable results
- Learn how to run improvement projects using real-world case studies
- Prepare for more advanced Black Belt training or leadership roles in continuous improvement

Target Audience

This program is designed for:

- Process improvement professionals and quality analysts
- Operations and production supervisors
- Project managers and engineers
- Team leaders responsible for reducing costs or improving processes
- Anyone interested in achieving a Lean Six Sigma Green Belt certification

Individual Benefits

Key competencies that will be developed include:

- Structured problem-solving and critical thinking
- Statistical analysis and data interpretation
- Leadership in cross-functional project teams
- Process mapping, waste reduction, and process control
- Ability to deliver high-impact improvement initiatives

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved operational efficiency and process consistency
- Reduction in errors, defects, and waste
- Faster problem resolution and increased customer satisfaction
- Cost savings through structured improvement projects
- Establishment of a culture of continuous improvement

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Core principles of Lean Six Sigma and the DMAIC model
- Case Studies – Practical examples of successful Green Belt-level projects
- Workshops – Hands-on use of tools such as Pareto charts, control charts, and fishbone diagrams
- Peer Exchange – Group activities and collaborative project planning
- Tools – Templates for process maps, FMEA, data collection plans, and project charters

Course Outline

Detailed 5-Day Course Outline

Training Hours: 7:30 AM - 3:30 PM Daily Format: 3-4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 - 02:00

Day 1: Introduction to Lean Six Sigma and Define Phase

- Module 1: Overview of Lean Six Sigma (07:30 - 09:30) • Lean vs. Six Sigma fundamentals • Introduction to DMAIC methodology • Role and responsibilities of Green Belts
- Module 2: Define Phase (09:45 - 11:15) • Project selection and scoping • Voice of the Customer (VOC) • Problem statements and project charters
- Module 3: SIPOC and Stakeholder Analysis (11:30 - 01:00) • Building SIPOC diagrams • Identifying key stakeholders • Planning effective project communication
- Module 4: Team Dynamics and Communication (02:00 - 03:30) • Forming and leading cross-functional teams • Effective meeting and communication tools

Day 2: Measure Phase

- Module 1: Process Mapping and Flowcharting (07:30 - 09:30) • Process analysis tools: flowcharts, swim lanes • Identifying measurement points and key metrics
- Module 2: Data Collection Planning (09:45 - 11:15) • Types of data and sampling techniques • Planning for accurate and efficient data collection
- Module 3: Measurement System Analysis (11:30 - 01:00) • Gage R&R basics • Understanding bias, precision, and repeatability
- Module 4: Baseline Performance and Capability (02:00 - 03:30) • Calculating process performance (Cp, Cpk) • Visualizing data with histograms and boxplots

Day 3: Analyze Phase

- Module 1: Root Cause Analysis (07:30 - 09:30) • 5 Whys and Fishbone Diagram • Failure Modes and Effects Analysis (FMEA)
- Module 2: Graphical and Statistical Analysis (09:45 - 11:15) • Scatter plots, Pareto charts, and control charts • Using Minitab or Excel for basic analysis
- Module 3: Hypothesis Testing (11:30 - 01:00) • Introduction to statistical inference • t-tests and confidence intervals
- Module 4: Analyzing Cause-Effect Relationships (02:00 - 03:30) • Data-driven decision-making • Correlation and regression basics

Day 4: Improve Phase

- Module 1: Solution Generation and Selection (07:30 - 09:30) • Brainstorming and prioritization tools • Pick charts, impact-effort matrices
- Module 2: Designing and Testing Solutions (09:45 - 11:15) • Pilot testing and risk analysis • Using FMEA to prevent failures
- Module 3: Cost-Benefit Analysis (11:30 - 01:00) • Quantifying improvement impact • ROI calculation for project recommendations
- Module 4: Workshop - Improvement Project Planning (02:00 - 03:30) • Group exercise: planning a real-world improvement project

Day 5: Control Phase and Certification Preparation

- Module 1: Control Plans and Standardization (07:30 - 09:30) • Control charts for process monitoring • Standard operating procedures and documentation
- Module 2: Sustainability and Knowledge Transfer (09:45 - 11:15) • Embedding improvements in daily operations • Training and handover strategies
- Module 3: Final Assessment and Certification Exam (11:30 - 01:00) • Review of key concepts • Mock exam and discussion
- Module 4: Action Planning and Closeout (02:00 - 03:30) • Developing personal Lean Six Sigma implementation plan • Certificate awarding and feedback session

Certification

Participants will receive an ASCB (E) UK Accredited Certificate in Lean Six Sigma Green Belt, validating their competence in applying Lean and Six Sigma principles, tools, and techniques for process improvement and operational excellence.

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