

ASQ LEAN SIX SIGMA GREEN BELT TRAINING

"Driving Process Excellence and Performance Improvement Using Lean Six Sigma Tools"

Schedule

Date	Venue	Fees (Face-to-Face)
24 - 28 Aug 2026	Dubai, UAE	USD 3495 per delegate

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

Introduction

Lean Six Sigma Green Belt is the most recognized industry credential for professionals seeking to improve processes, eliminate waste, and deliver measurable results. This ASQ-aligned training equips participants with the practical tools, methodologies, and leadership mindset required to lead quality improvement initiatives in any industry.

Over five days, participants will master the DMAIC methodology (Define, Measure, Analyze, Improve, Control), gain hands-on experience with statistical tools and Lean techniques, and prepare for the globally respected ASQ Green Belt certification. The program integrates real-world case studies, simulations, and improvement project planning.

Objectives

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

- Lead or support Lean Six Sigma improvement projects using DMAIC
- Identify root causes of process variation and eliminate inefficiencies
- Apply statistical tools for data analysis and process control
- Deliver quantifiable improvements in quality, cost, and performance
- Prepare for the ASQ Certified Lean Six Sigma Green Belt (CLSSGB) exam

Why Attend

- Acquire a globally recognized Green Belt credential from ASQ standards
- Learn to apply Lean and Six Sigma tools to real business challenges
- Understand how to quantify performance improvements and ROI
- Gain problem-solving confidence with data-driven decision-making
- Advance your career in operations, quality, or continuous improvement

Target Audience

This program is designed for:

- Process improvement and quality management professionals
- Engineers, analysts, and technical project leaders
- Operations, manufacturing, and service delivery managers
- Continuous improvement and Lean transformation teams
- Anyone pursuing ASQ Green Belt certification or leading improvement projects

Individual Benefits

Key competencies that will be developed include:

- Proficiency in DMAIC methodology and statistical thinking
- Capability to define and scope improvement projects
- Skill in using root cause analysis and control tools
- Understanding of Lean tools like value stream mapping and 5S
- Readiness to pass the ASQ Green Belt certification exam

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced process efficiency and reduced operational waste
- Improved quality performance through root cause elimination
- Data-driven project management for measurable results
- Alignment with global best practices in Lean Six Sigma
- Stronger internal capability for continuous improvement

Instructional Methodology

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

- Strategy Briefings - DMAIC roadmap, Lean tools, and Six Sigma concepts
- Case Studies - Quality failures, cycle time reduction, defect reduction
- Workshops - Process mapping, data analysis, control plan creation
- Peer Exchange - Project presentations and improvement sharing
- Tools - Minitab (optional), control charts, cause-effect diagrams, FMEA

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: Foundations of Lean Six Sigma & Project Scoping

- Module 1: Introduction to Lean Six Sigma and DMAIC (07:30 - 09:30) • Historical evolution, key principles, and certification levels
- Module 2: Define Phase - Project Selection & Chartering (09:45 - 11:15) • Voice of the Customer (VOC), CTQs, SIPOC, project charter
- Module 3: Lean Principles & Waste Elimination (11:30 - 01:00) • 5S, value stream mapping, types of waste, Kaizen
- Module 4: Workshop - Develop a Lean Six Sigma Project Charter (02:00 - 03:30) • Hands-on project scoping and SIPOC mapping

Day 2: Measure Phase & Data Collection

- Module 5: Process Mapping and Metrics (07:30 - 09:30) • Swim lane diagrams, time metrics, efficiency ratios
- Module 6: Data Collection Planning and Sampling (09:45 - 11:15) • Types of data, measurement systems, stratification
- Module 7: Measurement System Analysis (MSA) (11:30 - 01:00) • Gage R&R, precision and accuracy, bias and linearity
- Module 8: Workshop - Build a Measurement Plan (02:00 - 03:30) • Simulation of data collection and Gage R&R

Day 3: Analyze Phase & Root Cause Identification

- Module 9: Process Analysis Tools (07:30 - 09:30) • Value-added analysis, spaghetti diagrams, Pareto charts
- Module 10: Cause-and-Effect Analysis (09:45 - 11:15) • Fishbone diagram, 5 Whys, failure mode and effects analysis (FMEA)
- Module 11: Basic Statistical Analysis (11:30 - 01:00) • Histograms, boxplots, correlation, hypothesis testing basics
- Module 12: Workshop - Analyze a Process Problem (02:00 - 03:30) • Identify and prioritize root causes using statistical tools

Day 4: Improve Phase & Solution Implementation

- Module 13: Creative Problem Solving and Lean Tools (07:30 - 09:30) • Brainstorming, TRIZ, Poka-Yoke, SMED
- Module 14: Selecting and Testing Solutions (09:45 - 11:15) • Pilot testing, risk analysis, prioritization matrices
- Module 15: Cost-Benefit and ROI Calculation (11:30 - 01:00) • Project evaluation, financial impact, cost of poor quality (COPQ)
- Module 16: Workshop - Develop an Improvement Plan (02:00 - 03:30) • Plan actions, KPIs, and communication strategy

Day 5: Control Phase & Certification Prep

- Module 17: Control Plans and Process Monitoring (07:30 - 09:30) • Control charts, run charts, escalation procedures
- Module 18: Visual Management and Standard Work (09:45 - 11:15) • Auditing, visual controls, documented procedures
- Module 19: Certification Exam Preparation (11:30 - 01:00) • Review of ASQ exam format, tips, and sample questions
- Module 20: Final Workshop - Present Your Project Plan (02:00 - 03:30) • Group presentations and peer feedback

Certification

Participants will receive a Certificate of Completion in ASQ Lean Six Sigma Green Belt Training. This certificate confirms your knowledge of DMAIC tools, Lean methodologies, and statistical techniques, and serves as a foundational step toward earning the ASQ Certified Lean Six Sigma Green Belt (CLSSGB) credential.

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