MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

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ASQ LEAN SIX SIGMA YELLOW BELT

""Applying Lean Six Sigma Tools for Process Improvement, Quality, and Customer Satisfaction""

Schedule

Date	Venue	Fees (Face-to-Face)
26 – 30 Jan 2026	Dubai, UAE	USD 3495 per delegate

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

Introduction

Lean Six Sigma combines the speed and efficiency of Lean with the precision and quality control of Six Sigma. At the Yellow Belt level, professionals gain practical tools and foundational knowledge to support improvement projects, enhance operational efficiency, and reduce waste in day-to-day activities.

This hands-on, ASQ-aligned 5-day course introduces participants to the principles of Lean, Six Sigma, and the DMAIC methodology. Through real-world case studies and simulations, attendees will be prepared to assist Green and Black Belt teams in delivering measurable process improvements across industries.

Objectives

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

- Understand Lean and Six Sigma principles and how they complement one another.
- Apply the DMAIC (Define, Measure, Analyze, Improve, Control) methodology.
- Identify types of waste and opportunities for process improvement.
- Use basic quality tools and process mapping techniques.
- Participate effectively in Six Sigma projects and support Green Belt initiatives.
- Collect data, interpret results, and contribute to solution design and control plans.

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Why Attend

- Gain foundational certification in one of the world’s most respected process improvement methodologies.
- Learn mprovement professionals
- Analysts, team leaderhow to identify inefficiencies, reduce variability, and support quality initiatives.
- Enhance your problem-solving and analytical thinking using Lean Six Sigma tools.
- Contribute meaningfully to continuous improvement programs within your organization.
- Prepare for ASQ Yellow Belt certification with practical skills and exam-aligned content.

Target Audience

This program is designed for:

- Quality, operations, and process is, and entry-level engineers
- Employees supporting Lean Six Sigma projects
- HR, finance, and admin personnel aiming to reduce waste
- Anyone seeking a foundational understanding of Lean Six Sigma

Individual Benefits

Key competencies that will be developed include:

- Process analysis and problem-solving
- Data collection and measurement basics
- Lean tools: 5S, flow, standard work, visual control
- Root cause analysis and solution identification
- Process control and sustainability support

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Stronger team support for Lean Six Sigma projects
- Reduced errors, delays, and non-value-added activities
- Improved process consistency and cycle times
- Data-driven contribution to performance improvement
- Greater engagement in continuous improvement culture

Instructional Methodology

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

- DMAIC Walkthroughs – Step-by-step application of the core methodology
- Case Studies – Real-world examples of Lean Six Sigma in action
- Tools – Templates for SIPOC, Fishbone, Flowcharts, and Pareto Analysis
- Group Exercises – Root cause analysis, value stream mapping, and error reduction
- Knowledge Checks – Quizzes and Yellow Belt exam simulations
- Coaching – Instructor feedback and peer collaboration

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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: Foundations of Lean Six Sigma

- **Module 1: Introduction to Lean and Six Sigma (07:30 – 09:30)**
- History, philosophy, and integration of Lean and Six Sigma
- DMAIC vs. PDCA and project selection
- Voice of the Customer (VOC) and CTQ characteristics
- **Module 2: Define Phase – Problem Framing (09:45 – 11:15)**
- Project charters and problem statements
- SIPOC mapping and stakeholder engagement
- Roles and responsibilities in project teams
- **Module 3: Define Workshop – Charter Creation (11:30 – 01:00)**
- Participants create project charters for simulated scenarios
- **Module 4: Case Study – Scope and Opportunity Framing (02:00 – 03:30)**
- Review case examples of well-defined improvement projects

Day 2: Measure Phase and Data Collection

- **Module 5: Measure Phase – Understanding the Process (07:30 – 09:30)**
- Process mapping (flowcharts, swim lanes)
- Data collection planning and tools
- Types of data: discrete vs. continuous
- **Module 6: Baseline Performance and Metrics (09:45 – 11:15)**
- Identifying KPIs and current process capability
- Introduction to DPMO and Sigma levels
- Operational definitions and variation types
- **Module 7: Workshop – Mapping & Data Planning (11:30 – 01:00)**
- Hands-on flowcharting and collection design
- **Module 8: Quiz and Review – DMAIC So Far (02:00 – 03:30)**
- Team-based review game and instructor coaching

Day 3: Analyze Phase and Root Cause Discovery

- **Module 9: Root Cause Analysis Tools (07:30 – 09:30)**
- Fishbone diagram, 5 Whys, and Pareto analysis
- Cause-and-effect matrix and data correlation basics
- **Module 10: Verifying Root Causes (09:45 – 11:15)**
- Hypothesis testing overview
- Elimination vs. correlation
- Patterns of variation and process behavior
- **Module 11: Workshop – Analyze Phase Application (11:30 – 01:00)**
- Using team data to isolate probable root causes
- **Module 12: Group Simulation – Case Study Deep Dive (02:00 – 03:30)**
- Team investigation of fictional business process failure

Day 4: Improve and Control Phases

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Module 13: Solution Design and Improvement Tools (07:30 – 09:30)

- Brainstorming, selection matrix, and FMEA basics
- Piloting changes and stakeholder buy-in
- Visual control and error-proofing (poka-yoke)
- **Module 14: Process Control and Standardization (09:45 – 11:15)**
- Control charts and response plans
- Standard work and documentation
- Preventing regression and sustaining results
- **Module 15: Workshop – Designing Solutions (11:30 – 01:00)**
- Teams propose and defend improvements
- **Module 16: Control Planning Challenge (02:00 – 03:30)**
- Create a monitoring plan and checklist for improvement sustainability

Day 5: Certification Review and Final Project

- **Module 17: Lean Tools Overview and Application (07:30 – 09:30)**
- 5S, visual management, takt time, and flow principles
- Integrating Lean into DMAIC project execution
- **Module 18: Yellow Belt Practice Exam & Review (09:45 – 11:15)**
- Timed exam simulation
- Instructor-led review and clarification
- **Module 19: Final Project Presentations (11:30 – 01:00)**
- Participants present mock improvement project plans
- **Module 20: Wrap-Up and Certification Briefing (02:00 – 03:30)**
- Final Q&A, feedback, and next steps for further certification

Certification

Participants who complete the program will receive a Certificate of Completion in **ASQ Lean Six Sigma Yellow Belt,** recognizing their readiness to support process improvement initiatives using Lean Six Sigma tools and techniques in a structured DMAIC environment.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

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