MAWA EVENTS

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

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ASCB (E) UK ACCREDITED LEAN SIX SIGMA BLACK BELT

""Mastering Lean Six Sigma to Drive Quality, Efficiency, and Continuous Improvement""

Schedule

Date	Venue	Fees (Face-to-Face)
01 - 05 Mar 2026	Manama, Bahrain	USD 3495 per delegate
08 - 12 Nov 2026	Manama, Bahrain	USD 3495 per delegate

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

Introduction

The ASCB (E) UK Accredited Lean Six Sigma Black Belt program is designed for professionals who want to become experts in process improvement and operational excellence. This 5-day intensive training equips participants with the knowledge and skills to lead complex improvement projects using Lean Six Sigma methodologies. The program covers advanced tools and techniques for process analysis, problem-solving, and project management, focusing on delivering significant improvements in quality, efficiency, and cost-effectiveness across various industries. Upon completion, participants will be certified by ASCB (E) UK, validating their expertise in Lean Six Sigma.

Objectives

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

- Understand the principles and methodologies of Lean Six Sigma and how to apply them in real-world scenarios
- Lead and manage Lean Six Sigma projects using the DMAIC (Define, Measure, Analyze, Improve, Control) methodology
- Utilize advanced tools and techniques such as statistical analysis, process mapping, and root cause analysis to improve processes
- Mentor and coach Green Belts and project teams to implement Lean Six Sigma strategies effectively
- Drive continuous improvement and deliver sustainable results that enhance business performance

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Why Attend

- Gain an in-depth understanding of Lean Six Sigma methodologies and how to apply them to achieve process excellence
- Learn how to manage and lead large-scale improvement projects with measurable results
- Acquire advanced tools and techniques for process analysis, quality improvement, and problem-solving
- Enhance your leadership and project management skills, particularly in driving cross-functional teams and initiatives
- Receive an ASCB (E) UK accredited certification, which is globally recognized in the industry for excellence in process improvement

Target Audience

This program is designed for:

- Process improvement professionals and managers
- Quality assurance and control professionals
- Project managers and team leaders involved in operational excellence
- Engineers, analysts, and consultants seeking to implement Lean Six Sigma in their organizations
- Senior leaders looking to build a culture of continuous improvement

Individual Benefits

Key competencies that will be developed include:

- Expertise in leading complex process improvement initiatives using Lean Six Sigma methodologies
- Advanced problem-solving and statistical analysis skills for quality and process optimization
- Ability to apply Lean tools such as value stream mapping, Kaizen, and 5S for operational improvement
- Proficiency in project management and leadership in continuous improvement projects
- Certification as a Lean Six Sigma Black Belt, recognized globally

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced ability to lead and manage Lean Six Sigma projects that deliver measurable improvements in quality, cost, and efficiency
- A culture of continuous improvement within the organization through effective project execution and team leadership
- Improved problem-solving capabilities and a data-driven approach to process optimization
- A more agile and efficient organization that is better equipped to respond to customer needs and competitive pressures
- A higher level of employee engagement and collaboration through effective coaching and mentoring of Green Belts and project teams

Instructional Methodology

- Lectures to introduce Lean Six Sigma concepts, tools, and techniques
- Case studies to analyze real-world examples of Lean Six Sigma success stories
- Group exercises to apply Lean Six Sigma principles to actual business challenges
- Workshops to develop and manage improvement projects using DMAIC
- Simulations and role-playing to practice Lean Six Sigma tools and project leadership skills

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Course Outline

Training Hours: 07:30 AM – 03:30 PM Daily Format: 3–4 Learning Modules | Coffee Breaks: 09:30 & 11:15 | Lunch Break: 01:00 – 02:00

Day 1: Introduction to Lean Six Sigma and DMAIC Methodology

- Module 1: Introduction to Lean Six Sigma (07:30 – 09:30) • The history and evolution of Lean Six Sigma • Key principles and benefits of Lean Six Sigma • Overview of DMAIC methodology
- Module 2: Define Phase of DMAIC (09:45 – 11:15) • Defining the problem, objectives, and project scope • Identifying stakeholders and creating a project charter • Setting project goals and metrics
- Module 3: Workshop – Defining a Lean Six Sigma Project (11:30 – 01:00) • Participants will define a project scope and objectives for a sample improvement project

Day 2: Measure and Analyze Phases of DMAIC

- Module 4: Measure Phase of DMAIC (07:30 – 09:30) • Data collection techniques and tools (e.g., surveys, sampling) • Developing process maps and measuring current performance • Identifying key performance indicators (KPIs)
- Module 5: Analyze Phase of DMAIC (09:45 – 11:15) • Root cause analysis and statistical analysis tools (e.g., Pareto charts, fishbone diagrams) • Identifying and analyzing variation in processes • Hypothesis testing and data analysis techniques
- Module 6: Workshop – Measure and Analyze Your Project (11:30 – 01:00) • Participants will conduct a measure and analyze exercise using a case study

Day 3: Improve and Control Phases of DMAIC

- Module 7: Improve Phase of DMAIC (07:30 – 09:30) • Developing and implementing solutions to eliminate root causes • Brainstorming and selecting improvement actions • Designing and testing new processes and controls
- Module 8: Control Phase of DMAIC (09:45 – 11:15) • Developing control plans and monitoring systems • Ensuring sustainability and standardization of improvements • Continuous improvement and project handover
- Module 9: Workshop – Improving and Controlling Your Project (11:30 – 01:00) • Participants will apply the improve and control phases to their project

Day 4: Advanced Lean Six Sigma Tools and Techniques

- Module 10: Lean Tools and Techniques (07:30 – 09:30) • Overview of Lean tools such as value stream mapping, 5S, and Kaizen • Applying Lean tools to eliminate waste and optimize processes • Integrating Lean with Six Sigma for improved results
- Module 11: Statistical Tools for Data Analysis (09:45 – 11:15) • Advanced statistical tools such as regression analysis and design of experiments • Using data to drive decision-making and improvements • Visualizing and interpreting data effectively
- Module 12: Workshop – Applying Lean and Statistical Tools (11:30 – 01:00) • Hands-on workshop to apply Lean tools and statistical analysis to a process improvement scenario

Day 5: Project Leadership and Certification Preparation

- Module 13: Leadership in Lean Six Sigma Projects (07:30 – 09:30) • Leading and motivating teams in Lean Six Sigma projects • Overcoming resistance to change and fostering a culture of continuous improvement • Communication strategies for success
- Module 14: Certification Preparation and Review (09:45 – 11:15) • Review of key Lean Six Sigma Black Belt concepts and tools • Preparing for the ASCB (E) UK Lean Six Sigma Black Belt certification exam • Final Q&A and wrap-up
- Module 15: Final Exam and Certification (11:30 – 01:00) • Participants will take the final exam for Lean Six Sigma Black Belt certification

Certification

Upon successful completion of this course, participants will receive a Lean Six Sigma Black Belt Certification accredited by ASCB (E) UK, validating their expertise in leading process improvement projects using Lean Six Sigma methodologies.

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Why Choose MAWA Events

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