

Lean Six Sigma

Cairo (Egypt)

15 - 19 June 2025

UK Traininig

PARTNER



Lean Six Sigma

Code: IT28 From: 15 - 19 June 2025 City: Cairo (Egypt) Fees: 4000 Pound

Introduction

In today's competitive landscape, businesses are constantly seeking ways to maximize efficiency, minimize waste, and boost quality to maintain an edge. Lean Six Sigma is a powerful methodology that combines Lean principles focused on eliminating waste and enhancing process flow with Six Sigma techniques which reduce variation and defects. This integration provides a holistic approach to achieving operational excellence. Through Lean Six Sigma training, participants gain both the practical tools and the data-driven mindset needed to deliver consistent, measurable improvements across their organizations.

Course Objectives

- Gain a comprehensive understanding of Lean Six Sigma principles and their vital role in driving business success.
- Learn how to identify and prioritize opportunities for improvement to achieve impactful results.
- Acquire essential skills and tools to lead Lean Six Sigma projects effectively, delivering measurable outcomes.
- Develop a culture of continuous improvement to support long-term operational excellence.
- Stay current with emerging Lean Six Sigma methodologies and best practices to stay competitive.

Course Outlines

Day 1: Introduction to Lean Six Sigma

- Overview of the Lean Six Sigma methodology and its evolution.
- Understanding the DMAIC Define, Measure, Analyze, Improve, Control framework.
- Key principles: Customer focus, Process optimization, and Data-driven decision-making.
- Case studies on successful Lean Six Sigma implementations and their impact on business performance.

Day 2: Define Phase

- Defining project goals and objectives using Lean Six Sigma principles.
- Conducting stakeholder analysis and Voice of the Customer VOC analysis.
- Identifying Critical-to-Quality CTQ elements and developing project charters.

Day 3: Measure Phase

- Techniques for process mapping and value stream analysis.
- Methods for effective data collection and sampling.
- Tools for process performance measurement, including Measurement System Analysis MSA and capability analysis.



Day 4: Analyze Phase

- Root cause analysis techniques 5 Whys, Fishbone diagram, Pareto analysis.
- Hypothesis testing and experimentation for identifying problem sources.
- Failure Mode and Effects Analysis FMEA to prioritize improvement opportunities.

Day 5: Improve and Control Phases

- Generating and selecting solutions using Lean tools 5S, Kanban, Poka-Yoke.
- Implementing and controlling process changes through Lean Six Sigma principles.
- Developing control plans, monitoring systems, and standardization practices for sustainable improvements.

Conclusion

By the end of this Lean Six Sigma course, participants will have a solid foundation in Lean Six Sigma methodologies and practical experience with each step of the DMAIC process. Graduates will be equipped to reduce operational inefficiencies, improve quality, and create lasting value within their organizations, making them indispensable contributors to their business's ongoing success.



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BLACKBIRD
FOR TRAINING



International House 185 Tower Bridge
Road London SE1 2UF United Kingdom



+44 7401 1773 35
+44 7480 775526



Sales@blackbird-training.com



www.blackbird-training.com

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