

Lean Six Sigma

Barcelona (Spain)

29 July - 2 August 2024

UK Training

PARTNER



Lean Six Sigma

Code: IT28 From: 29 July - 2 August 2024 City: Barcelona (Spain) Fees: 4700 Pound

Introduction

In today's competitive business environment, organizations strive to maximize efficiency, minimize waste, and enhance quality to stay ahead. Lean Six Sigma is a powerful methodology that integrates Lean principles and Six Sigma techniques to achieve operational excellence. By combining the principles of Lean, which focuses on eliminating waste and optimizing processes, with the statistical rigor of Six Sigma, which aims to reduce variation and defects, Lean Six Sigma offers a comprehensive approach to continuous improvement.

Objectives

- Understand the principles and philosophy of Lean Six Sigma and its importance in driving organizational success.
- Learn how to identify and prioritize improvement opportunities within processes to achieve tangible results.
- Acquire the skills and tools necessary to lead Lean Six Sigma projects effectively and deliver measurable outcomes.
- Develop a mindset of continuous improvement and innovation to sustain operational excellence in the long term.
- Gain insights into the latest trends and advancements in Lean Six Sigma practices to stay ahead in a rapidly evolving business landscape.

Course Outline

Day 1

Introduction to Lean Six Sigma

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

Day 2

Define Phase

- Defining project goals and objectives
- Stakeholder analysis and management



- Voice of the Customer VOC analysis and critical-to-quality CTQ identification
- Developing project charters and establishing project metrics

Day 3

Measure Phase

- Process mapping and value stream analysis
- Data collection techniques and sampling strategies
- Statistical analysis tools for process performance measurement
- 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 methods
- Failure mode and effects analysis FMEA
- Identifying and prioritizing improvement opportunities based on data analysis

Day 5

Improve and Control Phases

- Generating and selecting solutions for process improvement
- Designing and implementing process changes using Lean tools 5S, Kanban, Poka-Yoke
- Developing control plans and establishing performance metrics
- Monitoring, sustaining, and standardizing improvements through Lean Six Sigma principles



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