



course : Advanced Lean Six Sigma Endorsed Professional

City :	Cairo	Hotel :	Cairo Marriott Hotel & Omar Khayyam Casino
Start Date :	2025-11-23	End Date :	2025-11-27
Period :	1 Week	Price :	3950 \$

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Course Overview

Advanced Lean Six Sigma is a professional methodology aimed at improving business processes by eliminating waste, reducing variation, and enhancing quality. This course provides participants with advanced tools, techniques, and practical applications of Lean Six Sigma to lead complex projects and drive continuous improvement in organizations.

Course Objectives

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

- Apply advanced Lean Six Sigma tools to analyze and improve complex processes.
- Lead and manage Lean Six Sigma projects effectively.
- Identify and eliminate process inefficiencies and waste.
- Implement data-driven decision-making to enhance quality and performance.
- Foster a culture of continuous improvement within the organization.

Target Audience

This course is ideal for:

- Process improvement professionals
- Project managers and team leaders
- Quality managers and operational managers
- Professionals seeking Lean Six Sigma certification at an advanced level

Methodology

The course combines theory with hands-on practice, including:

- Interactive lectures and discussions
- Case studies from real-world projects
- Group exercises and simulations

- Data analysis using Lean Six Sigma tools
- Project work with actionable improvement plans

Course Outline

Day 1: Advanced Lean Six Sigma Overview

- Recap of Lean Six Sigma principles and methodology
- Roles and responsibilities of a Lean Six Sigma professional
- DMAIC framework (Define, Measure, Analyze, Improve, Control) overview
- Identifying high-impact improvement opportunities

Day 2: Advanced Define & Measure Phase

- Project selection and scoping
- Voice of the Customer (VOC) and Critical to Quality (CTQ)
- Process mapping and value stream analysis
- Data collection planning and measurement system analysis

Day 3: Advanced Analyze Phase

- Root cause analysis and hypothesis testing
- Statistical analysis and tools for variation identification
- Failure Modes and Effects Analysis (FMEA)
- Hands-on exercises with real process data

Day 4: Improve Phase

- Solution generation and prioritization
- Lean tools for waste elimination (5S, Kaizen, SMED, Kanban)
- Design of experiments (DOE) for process optimization
- Simulation exercises and pilot testing

Day 5: Control & Certification Preparation

- Control plans and sustaining improvements
- Metrics and dashboards for performance monitoring
- Change management and stakeholder engagement
- Final project presentations and review for professional endorsement