

ASQ Approved Lean Six Sigma Green Belt Course

Venue Information

Venue: London UK

Place:

Start Date: 2025-12-22

End Date: 2025-12-26

Course Details

Net Fee: £4750.00

Duration: 1 Week

Category ID: QAPC

Course Code: QAPC-3

Syllabus

Course Syllabus

Introduction

Who should attend:

Individuals from all organization departments including finance, quality and business operations staff functions as well as those who have direct intervention as process owners or stakeholders.

Objectives

- Practice the Six Sigma methodology and apply the roadmap.
- Apply the principles of the Six Sigma DMAIC performance improvement model.
- Set up and execute process-level improvement projects.
- Collect and analyze process data and develop process maps.
- Employ statistical analysis using statistical tools and software.

- Why Six Sigma?
- Cost of Poor Quality
- Project Details

Define Phase: Tools and Methods

- Charter the Improvement Project
- Define the Scope
- Six Sigma Project Definition
- Project Selection Process
- Define the Voice of Customer (VOC) and CTQ
- Kano Model Analysis
- Team Development Phases
- Communication Plan
- Project Planning and Management

Measure Phase: Introduction and Tools

- Computing DPMO and Sigma
- Process Mapping
- FMEAs and Cause and Effect
- Graphical Analysis
- Analysis of Variance and Multi Plot Diagrams
- Histograms
- Measurement Systems Analysis: Gauge R&R
- Sampling Techniques
- Introduction to Minitab and QIMacro Software

Analyze Phase: Introduction and Tools

- Probability and Basic Statistics
- Control Charts and Stability
- Data Normality
- Process Capability, Cp and CpK
- Types of Data

Improve Phase: Introduction and Tools

- Piloting and Implementation
- Introduction to Lean Enterprise
- Types of Waste
- Lean Tools
- 5S Program
- Value Stream Mapping
- Lean – Kaizen

Control Phase: Introduction and Tools

Green Belt Project/ Tollgate Review