

# ASQ Approved Lean Six Sigma Green Belt Course

## Venue Information

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**Venue:** London UK

**Place:**

**Start Date:** 2025-12-08

**End Date:** 2025-12-12

## Course Details

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**Net Fee:** £4750.00

**Duration:** 1 Week

**Category ID:** QAPC

**Course Code:** QAPC-3

## Syllabus

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### 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**