



## **ASQ Approved Lean Six Sigma Green Belt**

**Course Venue:** UK - London

**Course Date:** From 3 Apr 2022 To 7 Apr 2022

**Course Place:** London Paddington

**Course Fees:** 4700 GBP



## **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.

## **Content**

### **Six Sigma Overview**

- History and Origins
- 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**

- Statistical Process Control
- Standardization and Documentation
- Control Plans
- Mistake Proofing

### **Green Belt Project/ Tollgate Review**