

Lean Six Sigma Green Belt

Duration: 5 Days

Price: £1,795 + vat

At the heart of Six Sigma improvement and redesign activities are project teams. These teams will consist of people who want to use their knowledge and skills to improve the performance of processes and the business. Lean Six Sigma Green Belt training is focused on team members understanding and applying the **Define Measure Analyse Improve and Control (DMAIC)** model which is the foundation of most Six Sigma projects. The focus of Six Sigma is fundamentally about quality, customer focus and cost, whereas Lean is about cost and speed. This course blends a number of Lean concepts and tools into the Six Sigma DMAIC model. The team leaders and team members are the brains and muscle behind the Lean Six Sigma programme it is critical that they are equipped with the appropriate skills and tools to enable them to deliver current and future improvements.

Course Objectives:

At the end of the intensive five day programme delegates will understand and be able to:

- Apply the principles of the Six Sigma DMAIC performance improvement model.
- Establish the “Voice of the Customer” in defining the required performance standard.
- Use a number of measurement approaches and tools to establish current performance.
- Use appropriately a number of basic analysis tools and techniques to establish the root cause of a problem.
- Understand key lean concepts and tools, when and how to apply them to drive improvements
- Recognise the difference in approach and techniques for incremental and redesign improvement strategies and know how to decide on the correct approach.
- Establish ongoing process controls and process governance structures.

Course Content:

This course, which has a case study running through the five days, covers:

Define

- Understanding Variability
- Project Charter
- Stakeholder Analysis
- Communication Plan
- Identify and segment key Customers
- Critical to Quality (CTQ) Requirements
- Verifying CTQs
- Hi-level Process map
- Process Vision
- Project Plan

Measure

- Measurement Basics
- Measurement process and plan
- Selecting Measures
 - Measuring Value
 - Cost of Poor Quality
- Data definition and sources
- Gauge R&R
- Sampling
- Measuring yields and capability
- Implementing the measurement plan

Continued...

Analyse

- Data Analysis
 - Pareto charts
 - Frequency charts
 - Run charts
 - Variation
- Process Mapping and Analysis
 - Value Stream Analysis
 - Complexity
- Cause and Effect Analysis
- Verifying causes
 - Scatter diagrams
 - Design of Experiments

Improve

- Process Vision
- Brain storming
- Lean principles
 - 5S's
 - Little's Law
 - Push versus Pull
 - Visibility
 - Setup reduction
- Theory of Constraints
- Evaluating solutions
 - Decision Analysis
 - Impact Effort Matrix
- Selecting solutions
- Developing solution options
- Business scenarios
- Pilot testing
- FMEA risk analysis
- Implementation planning
 - Force field analysis

Control

- Simple and appropriate documentation
- Mistake Proofing
- Statistical Control
 - Variation
 - Control Charts
 - I, X Bar and R Charts
- Response Charts
- Process Management
- Process Scorecards
- Project Close and Handover

Who Should Attend?

Managers, internal consultants, change agents, project managers, team leaders and team members who will be involved in Lean Six Sigma projects.

Prerequisites

There are no pre-requisites for this course.

Follow on Courses

Delegates can also go on to attain **Six Sigma Black Belt** level by attending our **Six Sigma Black Belt Conversion** course.

Delegates should complete a Six Sigma project before attending the Black Belt Conversion course.