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TRAINING

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Lean Six Sigma Green Belt

Duration: 5 days
Price: £1,795 + vat

Prerequisites

This course is recommended for managers, internal consultants, change agents, project managers, team leaders and team members who will be involved in Lean Six Sigma projects

This Lean Six Sigma Green Belt training course provides delegates with a working understanding of 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 and it is critical that they are equipped with the appropriate skills and tools to enable them to deliver current and future improvements.

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.

Objectives

After this Lean Six Sigma Green Belt training course, delegates will 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

Define

- Understanding Variability
- Project Charter
- Stakeholder Analysis
- Communication Plan
- Identify and segment key Customers

continued...

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Lean Six Sigma Yellow Belt: 2 Days

Lean Processes & Tools: 3 Days

Six Sigma Black Belt Conversion: 10 days

Root Cause Analysis: 2 Days

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Lean Six Sigma Green Belt (continued)

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Prerequisites

This course is recommended for managers, internal consultants, change agents, project managers, team leaders and team members who will be involved in Lean Six Sigma projects

- 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

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

continued...

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Lean Six Sigma Green Belt (continued)

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Prerequisites

This course is recommended for managers, internal consultants, change agents, project managers, team leaders and team members who will be involved in Lean Six Sigma projects

- 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

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.

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