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Six Sigma Black Belt Conversion

Duration: 10 days
(2 x 5 days)

Price: £3,250 + vat

Prerequisites

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

Delegates should bring a well defined project with them to the course, including SIPOC, Process Map and Data. You will be able to undertake live project work during the course and in the month's gap between the two weeks of training

Completion of our Lean Six Sigma Greenbelt course or equivalent training

Completion of at least one Six Sigma project – please see Q & A on the main website

At the heart of Six Sigma improvement and redesign activities are project teams. These teams will require technical knowledge of the Six Sigma Tools to be successful. This Six Sigma Black Belt training course is focused on project leaders who will become a technical expert in applying the statistics required within the Define, Measure, Analyse, Improve and Control (DMAIC) model which is the foundation of most Six Sigma projects.

In most organisations there is recognition that employees who are trained Green Belts are capable of moving up to Black Belt level. This programme has been designed to incorporate those elements from a Black Belt's tool kit that are additional to our Green Belt course.

Black Belts are individuals that apply intensive and diversified process improvement techniques to achieve greater efficiency and effectiveness. A Black Belt provides training, facilitation, direction, analysis and advises on product and process improvement.

Objectives

After this Six Sigma Black Belt Conversion training course, 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
- Identify the "cost per poor quality" COPQ
- Use a number of measurement approaches and tools to establish current performance
- Appropriately apply a number of advanced statistical analysis tools and techniques to establish the root cause of a problem.
- 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
- Complete a full Six Sigma project- through the DMA and some I phases
- Use Minitab to provide data analysis and process capability

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Related Courses

Lean Six Sigma Green Belt: 5 Days

Value Stream Mapping: 2 Days

Root Cause Analysis: 2 Days

Lean Processes & Tools: 3 Days

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Six Sigma Black Belt Conversion (continued)

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Course Content

Define- Week 1

- Understanding Variability
- Project Charter
- Thought Mapping
- Basic Statistics
- QFD/VOC
- COPQ
- Process Maps

Measure – Week 1

- Measurement Basics
- Histograms
- Equipment R & R/MSA
- Scatter Plots
- Sigma Levels & DPMO
- Process Capability
- Yield Calculation
- Sampling Techniques
- Confidence Intervals
- Gauge R&R
- Implementing the measurement
- Data Collection
- Brainstorming
- FMEA

Analyse- Week 1- Week 2

- Data Analysis
 - Pareto charts
 - Frequency charts
 - Run charts
 - Variation
- Process Mapping and Analysis
 - Value Stream Analysis
 - Complexity
- Cause-Effect Diagram & 5 Why's
- Central Limit Theorem
- Confidence Intervals
- Capability Studies
- Correlation
- Regression

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