



## Lean Six Sigma Green Belt

This certified Lean Six Sigma Green Belt training course provides attendees with the knowledge and skills to participate at Green Belt level in Lean Six Sigma projects.

The 5-day course combines Yellow Belt training with the more advanced Green Belt training. It begins by exploring Lean Six Sigma, offering a clear insight into its principles and benefits in business process improvement projects. Delegates will gain an understanding of the full project cycle, from selecting a suitable Lean Six Sigma project to implementing process controls on completion.

The inclusion of practical workshops and exercises gives delegates the opportunity to develop and practise their Lean Six Sigma skills.

By the end of the course attendees will be able to identify and undertake improvement projects that deliver outcomes such as reduced waste, greater productivity, enhanced quality, increased customer satisfaction and lower operational costs.

The training is led by expert tutors, including Master Black Belts who have been instrumental in the development of ISO 18404, the standard for Lean and Six Sigma.

### COURSE DURATION

5 days

### CPD

Equivalent to 35 hours

### COURSE PRICE

From £2195 + VAT

### DATES & VENUES

[View dates & venues](#)

### CERTIFICATES

All delegates will receive a certificate on completion.

## Who should attend?

This RSS certified Lean Six Sigma Green Belt course is recommended for delegates from all areas of an organisation, including those:

- looking to improve business performance by removing the causes of defects and as a result increase customer satisfaction
- wishing to use Lean Six Sigma methodologies to optimise processes and reduce variation
- working in organisations seeking to increase productivity
- responsible for continuous improvement within the organisation
- responsible for supporting/monitoring the success of Six Sigma improvement or organisational improvement projects of all types

This course incorporates our [Lean Six Sigma Yellow Belt training course](#), meaning no prior knowledge is required.

Please note, this course includes a high degree of mathematics and statistics as this is a fundamental part of the Six Sigma approach. Laptops with Excel, or equivalent, are required for this course.

## Key topics

Topics covered on the course include:

- introduction to Lean and Six Sigma
- Lean, Six Sigma and Lean Six Sigma competencies, organisational benefits and business process improvement
- process thinking and the Lean Six Sigma toolkit
- define – measure – analyse – improve – control (DMAIC) project management
- stakeholder management
- lean principles
- process mapping
- Kanban and Kaizen
- value stream mapping (VSM)
- change management
- risk management
- presentation and reporting
- sustainability
- statistics, data and problem solving
- data acquisition for analysis
- practical problem solving, including root cause analysis (RCA)
- statistical concepts:
  - manipulation of data in Microsoft Excel
  - sampling
  - frequency distributions
  - measures of variation
  - hypothesis testing
- Six Sigma tools:
  - measurement system analysis (MSA)
  - statistical process control (SPC)

## Skills gained

Lean Six Sigma certification demonstrates a recognised capability to engage in Lean Six Sigma improvement projects at both Yellow and Green Belt level.

The teaching to Yellow Belt level enables students to understand:

- the principles and benefits of Lean Six Sigma
- the Lean Six Sigma roles at various levels
- the Lean Six Sigma toolkit
- how to quantify opportunities for improvement

Extending the Yellow Belt level onto the Green Belt teaches students to:

- use Six Sigma tools such as regression and correlation, analysis of variance, measurement system analysis, standards and tolerances
- apply statistical concepts such as sampling methods, Microsoft Excel functions and distributions and use statistical software
- apply the DMAIC methodology to improvement projects
- reduce and control variation within processes
- identify and evaluate risks associated with Green Belt projects
- mentor others on process improvement methods
- confidently acquire and sample data to identify and quantify opportunities for improvement
- formulate a project charter and stakeholder analysis for a Lean Six Sigma project
- identify and manage stakeholder interests

The course is certified by the Royal Statistical Society (RSS).

Following the course, delegates who wish to progress to become a certified Six Sigma Black Belt can attend our 5-day [Six Sigma Green Belt to Black Belt training course](#).

## In-company training

Ideal for groups, you can receive this course exclusively for your organisation at your premises or online in our user-friendly Virtual Classroom.

Enjoy cost-effective flexibility and personalised learning with tailored messaging designed to address your unique business challenges. [Contact us for a quote](#).



On completion of the course attendees will receive a recognised Lean Six Sigma Green Belt certificate.

## Course agenda

Our training courses are designed to optimise the learning experience for delegates both in face-to-face settings and in our Virtual Classroom.

Under the guidance of our expert tutors, attendees will follow an agenda which is briefly outlined below:

- Welcome and Introductions
- Module 1
  - ISO 18404:2015 & Certification Requirements
  - Introduction to Lean, Six Sigma & Lean Six Sigma Roles
- Module 2 Lean Six Sigma & the Relationship to Quality, Efficiency and Productivity
- Module 3 Process Thinking and the (Lean) Six Sigma Toolkit
- Exercise 1 Claims Authorisation Process
- Module 4 DMAIC(T) Project Management & Decision Making
- Exercise 2 Formulate a Project Charter & Stakeholder Analysis for a LSS Project
- Module 5 Interpersonal & Team Leadership Skills Stakeholder Management
- Exercise 3 Major Activities – Inputs and Outputs
- Module 6 Creativity Tools & Defining the Project Mission
- Exercise 4 Enlightenment Process
- Exercise 5 Applying the Problem Definition Sheet and 5W2H Method
- Exercise 6 The 5 Why's
- Module 7 Principle & Practice of Lean Value Stream Analysis
- Exercise 7 Value Added
- Exercise 8 Construct a Value Stream Map
- Module 8 Change Management
- Exercise 9 Syndicate Exercise: Successfully Managing Change for Lean Six Sigma
- Module 9 Leadership and Motivation
- Exercise 10 Development and Independence Level Analysis form
- Exercise 11 Belbin questionnaire & Conflict Questionnaire
- Module 10 Customer Focus
- Exercise 12 House of Quality
- Module 11 Risk Management
- Exercise 13 Identify & Evaluate Risks Associated with a Green Belt Project Proposal
- Module 12 Sustainability & Control
- Module 13 Presentation & Reporting Skills
- Module 14 Numeracy
- Module 15 Data Acquisition for Analysis
- Exercise 14 Appropriate Data
- Module 16 Statistical Concepts
- Exercise 15 Tutor Led Exercises on Microsoft Excel
- Module 17 Practical Problem Solving
- Module 18 Six Sigma Tools
- Regression and Correlation
- Designed Experiments
- Analysis of Variance
- Measurement System Analysis
- Module 19 Statistical Software Use
- Summary
- Review & Close

During the course there will be a morning and afternoon break with additional screen breaks provided for Virtual Classroom courses. In addition, a one hour break is provided for lunch.

The tutor is an absolute fountain of Lean Six Sigma knowledge. I particularly enjoyed listening to how he had applied LSS concepts and exercises to his real-life projects.

**Network Plus Services Ltd**

Our tutor had a vast knowledge of the subject matter and was happy to change the pace dependent on delegates and complexity of literature. They had useful real-life examples to strengthen the course material.

**Bevan Motor Bodies**

The knowledge given by the tutor gave me great clarity and understanding on how these tools and principles can be easily applied to my current role. Very appreciative.

**Babcock Land Defence Limited**

[Read our Lean and Six Sigma training course reviews](#)

## Why train with Bywater?

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 Global Virtual Classroom

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**VIEW DATES & VENUES**

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If you have any questions please call us on 0333 123 9001, use our online chat or email [contact@bywater.co.uk](mailto:contact@bywater.co.uk)

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