



Six Sigma Green Belt to Black Belt Upgrade

Build on Six Sigma Green Belt skills to upgrade to Black Belt level on this 5-day certified course.

By attending this course current Six Sigma Green Belts will gain a greater understanding of Six Sigma and learn how to undertake additional roles, such as managing improvement projects, organising multi-disciplinary teams, training others on the define, measure, analyse, improve, control (DMAIC) methodology, and participating in gate reviews.

Delegates will take part in exercises during the course modules to practise key approaches and skills.

On successful completion, attendees will be able to confidently lead improvement projects and facilitate Green Belt projects using the DMAIC methodology at Black Belt level.

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 course is designed for delegates who have previously completed a Lean Six Sigma Green Belt training course and now wish to progress to become a Six Sigma Black Belt.

It is suitable for current Six Sigma Green Belts who are:

- seeking to gain an expert level understanding of Six Sigma as a Six Sigma Black Belt
- taking a leadership role with responsibility for stakeholder needs during Six Sigma implementation projects
- responsible for mentoring and managing Green Belts
- seeking progress within their career and to demonstrate their process improvement capabilities with a recognised certificate

We recommend that students who have not previously completed a Lean Six Sigma Green Belt training course book instead onto our 10-day Six Sigma Black Belt training course.

Please note this course incorporates significant mathematical and statistical elements. Laptops with Excel will be required for the duration of the course.

Key topics

Topics covered on the course include:

- role and competency requirements for Black Belts
- training, coaching and mentoring Green Belts
- gap analysis and action plans
- approaches and tools, including:
 - benchmarking
 - advanced Lean such as Poka Yoke (mistake proofing) and theory of constraints

- integrity of data
- full factorials
- design of experiments
- multiple regression and correlation
- analysing Big Data sets
 - principles
 - data acquisition
 - statistical software
 - statistical techniques



All delegates will receive a recognised Six Sigma Green Belt to Black Belt course 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
- Role & Competency Requirements for Black Belts
- Comparison Black Belt to Green Belt Requirements
- Managing the Competencies Requirements
- Requirement to Train, Coach & Mentor Green Belts
- Gap Analysis & Action Plans
- Exercise: Review Your Competencies
- Exercise: Your Action Plan
- Benchmarking
- Exercise: Identify Appropriate Topics to Benchmark
- Poka Yoke Mistake Proofing
- Exercise: Sources of Defects
- Exercise: Red Flag Conditions
- Exercise: Defect Identification
- Theory of Constraints
- Exercise: High/Low Inventory
- Integrity of Data
- Exercise: Distribution of Time
- Multiple Regression and Correlation
- Exercise: Investigate the Correlation
- Introduction to Design of Experiments
- Full Factorial Designs
- Fractional Factorial Designs

- Analysing Big Data Sets
- Exercise: IT Help Desk
- Process Design / Specification
- Survey Design and Analysis
- Taguchi Methodology
- Advanced DoE and Response Surfaces
- Summary
- Review & Close

Skills gained

By the end of this course delegates will be able to:

- take a leading role in Six Sigma improvement projects
- train, coach and manage Green Belts in Six Sigma tools and techniques
- undertake Six Sigma project reviews
- facilitate Green Belt projects using DMAIC methodology
- participate in all gate reviews and present accomplishments to date
- analyse Big Data sets through data acquisition, statistical software, statistical techniques and six sigma tools

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.](#)

The tutor was exceptional, could not have asked for a better, more personable and knowledgeable tutor.

TWI Ltd

Course content and how it was structured can be directly related to the various roles within our company. Good use of case studies, group tasks. Trainer is clearly experienced on the topic.

Mitsubishi Electric Europe B.V.

Tutor has explained all the modules very well with real examples from his experiences. His experiences made this course very enriching.

AVL

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

Why train with Bywater?

Bywater is the leading independent provider of professional management systems training in the UK.

Our expert training offers practical understanding of how to realise the benefits and assess the success of implementing and operating successful management systems.

Bywater delegates know they can rely on proven training delivered by experts at times and locations to suit their needs.

40 years established

100+ course titles

15 UK locations

1000+ courses annually



Global Virtual Classroom

CQI & IRCA, ISEP, RSS and IOSH approved training provider.



VIEW DATES & VENUES

Booking is easy

Simply select a course date and venue and fill in the online form. View our full range of courses at www.bywater.co.uk

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

Bywater