

Lean Six Sigma Black Belt

17 Days (4 blocks) – Open Access Training



Maximise the success of your projects

Successful business improvement is dependent on the people involved and the methods they employ. SigmaPro has trained many thousands of Black Belts across the world to tackle real problems and stay ahead of the competition. Many SigmaPro Black Belts have achieved outstanding success within their organisations.

Course purpose & aims

The programme enables students to become effective Lean Six Sigma Black Belts capable of running successful improvement projects that enhance organisation performance. As a SigmaPro Lean Six Sigma Black Belt you will learn how to:

- ✓ Successfully introduce Lean Six Sigma into your organisation
- ✓ Identify and launch business improvement projects within the organisation
- ✓ Operate cross functionally and engage all areas in the improvement process
- ✓ Use state of the art tools and methods to achieve sustainable improvement
- ✓ Influence stakeholders to effectively manage the change process
- ✓ Ensure results are shared with peers and associates
- ✓ Mentor and coach team members to ensure projects are successful

Who is this course for?

Black Belts should be outstanding individuals with the drive to deliver breakthrough results. They should possess the potential to quickly develop an understanding of the processes to be improved.

As well as having good communication and leadership skills, Black Belts must have the capability to develop effective teams. They will be self motivated and always strive for excellence.

The programme assumes no prior knowledge of Lean Six Sigma, but good technical skills are an advantage, as some of the tools include statistical analysis.

This intensive programme is designed for anyone who has been tasked with delivering improvement projects within their organisation, or those who need an in depth understanding of the tools and methods involved in Lean Six Sigma.

“The instruction and materials are outstanding. I would highly recommend this course to anyone interested in developing an understanding of the Lean Six Sigma methodologies”



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What does the programme cover?

The course consists of 60 modules, taught over 17 days spread across 4 months (5, 3, 4, 5 days). It covers the Lean Six Sigma methodology and tools in detail. Students are able to apply what they learn to a project within their own organisations during the training while being supported throughout the programme by one of SigmaPro's experienced international Master Black Belts. This approach enhances learning and ensures an early return on the training investment.

Programme includes:

Launching your project

- Use state of the art methods and tools to plan an improvement project
- Lead and motivate improvement teams
- Identify and manage organisation stakeholders during the project
- Analyse the Voice of the Customer to determine what customers really want

Measuring and modelling processes

- Ensure measurement data is valid to precisely pinpoint process weaknesses with confidence
- Use Value Stream Mapping to understand processes and identify improvement opportunities
- Decide project data required and plan out data collection
- Measure process performance and establish baseline capability

Data analysis and waste identification

- Identify waste in processes to drive efficiency improvements
- Decide when & how to take short term improvement actions
- Use hypothesis testing and statistical methods to decide where to focus improvement effort for best results

Process improvement and optimisation

- Generate new ideas using a structured approach to creativity
- Utilise design of experiments to truly optimise a process
- Use pilots and trials to evaluate new ideas
- Use process simulation and MonteCarlo analysis to examine alternative solutions

Controlling and sustaining the gains

- Plan out a control strategy to sustain the gains
- Use structured methods to identify and reduce risk
- Employ change management techniques to overcome resistance
- Introduce Kaizen to ensure process improvement continues

Software

- Analyse data easily with just a few mouse clicks using Minitab™ 16
- Effectively utilise leading software tools such as SigmaWorks™ & ProcessModel™

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Course structure

The programme is a mix of classroom teaching, individual and group exercises, case studies and real world examples. Accelerated Learning approaches are extensively used to ensure rapid learning and maximum knowledge retention. During the course students actively practice the application of the tools and methods and use the software. Students are encouraged to share experiences from their own projects with the training group.

Some course tuition is on state-of-the-art statistical and analytical software packages including Minitab™ 16, SigmaWorks™ and ProcessModel™. Trial versions are provided during training and full licenses can be purchased through SigmaPro.

Black Belt certification

Upon successful course completion students will receive a certificate of training competence. After completion of two projects and passing a short exam, students may apply to become a SigmaPro-Certified Black Belt™.

Benefits to the organisation

Manufacturing

- ✓ Single improvement project saving £600K operating costs per annum
- ✓ £1.2M operational savings per annum in manufacturing costs
- ✓ Warranty costs reduced by over £1.5M per annum

Supply chain

- ✓ Customer complaints reduced from 18% to 7%, saving £800K per annum
- ✓ Overdue supplier debts reduced by £1.0M
- ✓ Purchasing savings of £300K

Service industry

- ✓ On time delivery improved from 45% to 89%
- ✓ Recruitment times halved from 26 weeks down to 13 weeks
- ✓ Data supply time reduced and accuracy improved from 85% to 95%

Prices

First delegate - **£6,395 + VAT**

Second delegate - **£5,845 + VAT**

Third & subsequent delegates - **£5,295 + VAT**

Our Black Belt programmes now include the powerful statistical software Minitab™ (worth £950)

“Exceeded my expectations! Good substance, structure and course pace. Trainers were excellent”

“Thoroughly impressed. I look forward to using the skills I have learned to make a positive impact on the organisation”