

Six Sigma Green Belt

10-day Training Course



What is it?

The three modules for the 10-day programme are separated by approximately one month so that delegates can start to put into practice what they have learned. This course can be adapted to meet your specific company requirements.

Who should attend?

Those seeking to achieve a thorough understanding of Six Sigma and a level of competence that will enable them to lead improvement activities. It is advisable that attendees arrive with an outline project in order that they can receive advice and guidance during the first module. Attendees must have access to a laptop computer installed with Minitab.

How will they benefit?

After attending this course you will be able to:

- Have a detailed understanding of the phases Define, Measure, Analyse, Improve, Control and Transfer (DMAICT)
- Be able to lead business improvement activities through the utilisation of Six Sigma to defined internal and external expectations
- Have the ability to utilise data to rigorously assess alternative solutions
- Be able to monitor the improved process and ensure control is maintained

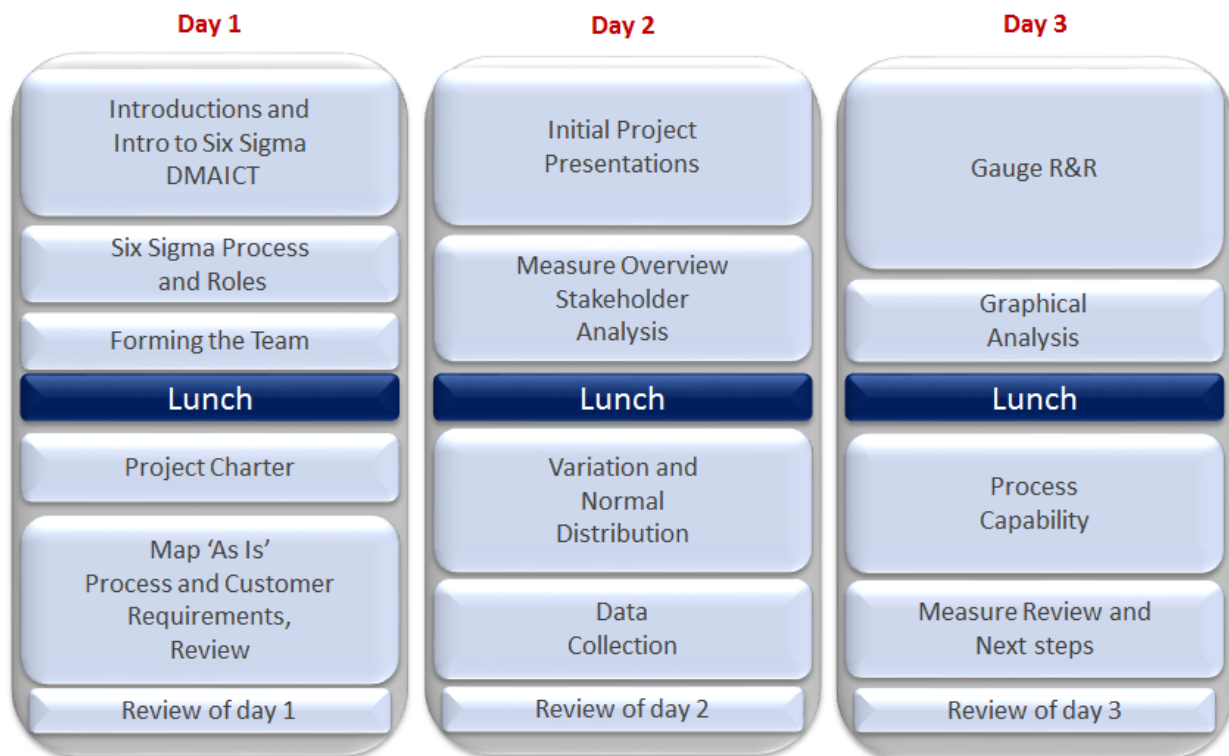
Six Sigma Group

The Six Sigma Group specialises in providing Six Sigma training. This ranges from basic awareness training right up to Master Black Belt level. Our training courses are exclusively for companies seeking to improve their Six Sigma and Lean capability. If you are embarking on a company-wide Six Sigma programme, then The Six Sigma Group can support you every step of the way.

You can book this course by calling us today on **01926 632888** or emailing us at info@sixsigmagroup.co.uk



Six Sigma Green Belt 10-day Training Course (Module 1)



Agenda content is subject to change.

OBJECTIVES FOR GREEN BELT MODULE 1

DEFINE

- Understand that the Voices of the Customer, Process, People and Stakeholder generate projects and how projects are identified
- Understand the dynamics of team working and how to form a balanced team
- Understand the concepts, framework and roles within Six Sigma and Lean
- Understand the process at high level

Key Deliverable – Define: A well-supported, well-defined, well-justified and bounded project.

MEASURE

- Understand the importance of variation and its reduction to achieve better quality performance
- Be able to measure the 'as is' process capability (Sigma value), against which improvements will be judged
- Gain a deeper understanding of the nature of data and how to collect it properly
- Understand the importance of sampling and how to quantify sample size
- Undertake measurement systems analyses (Gauge R&R) to ensure data integrity
- Formulate a data collection plan
- Undertake preliminary graphical analysis of data using Minitab

Key Deliverable – Measure: Collected data.

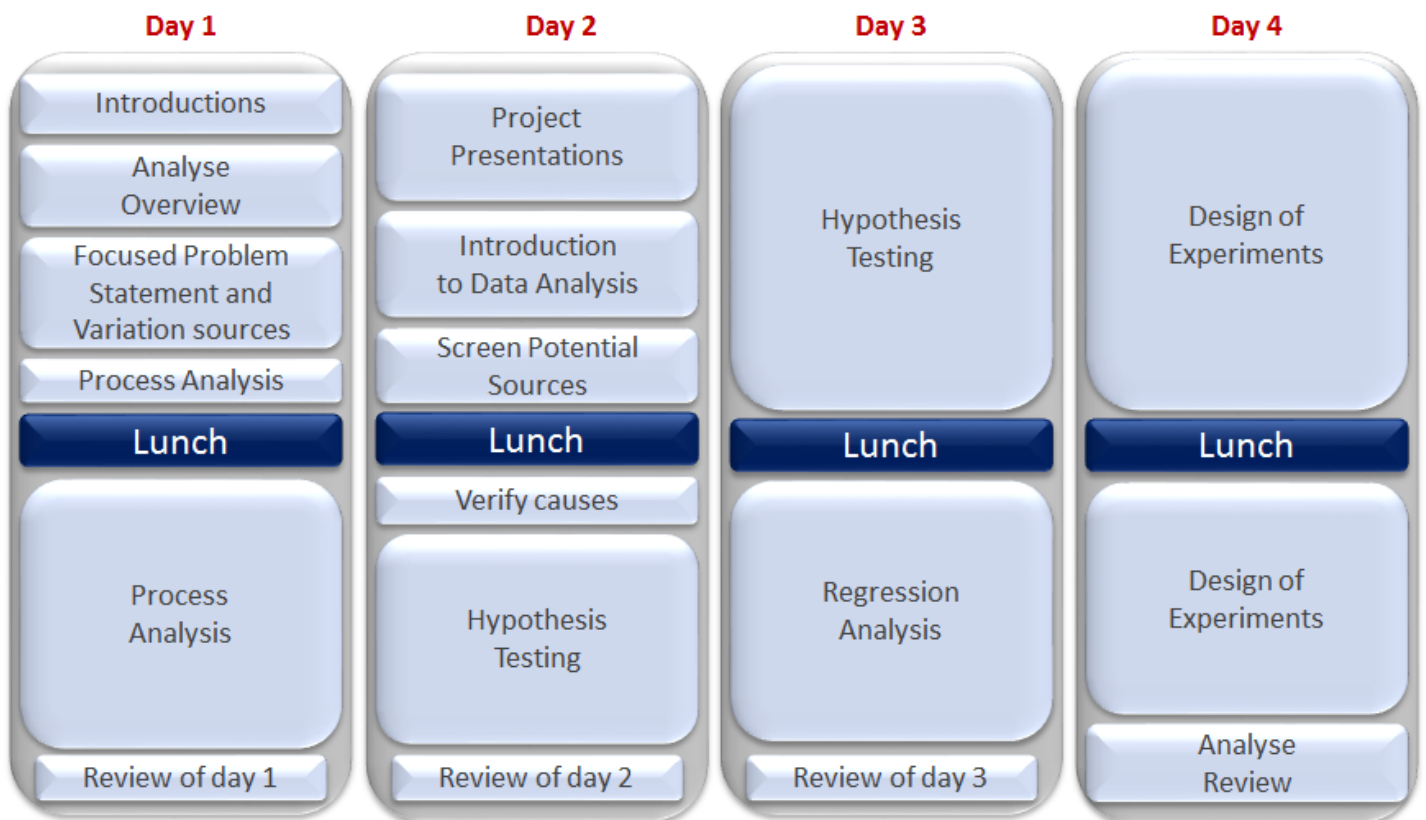
PROJECTS: Live projects reviewed



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Six Sigma Green Belt 10-day Training Course (Module 2)



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OBJECTIVES FOR GREEN BELT MODULE 2

Process Analysis

Be able to analyse an existing process through process mapping, work flow measurement, cycle time and value-added versus non value-added activity. Understand how to identify waste and various ways of dealing with it.

Data Analyse

- Understand how conclusions about populations can be extracted from samples
- Understand the nature of the risks in this context and how to mitigate them
- Understand how Minitab can be used to perform data analysis
- Be able to establish with certainty the relationship between process variables and the process output (the X's and Y's)

Key Deliverable: Verified true root causes of variation in process performance.

Focus on the key variables that need to be changed or removed to improve process capability.

Projects: Live projects progress reviewed

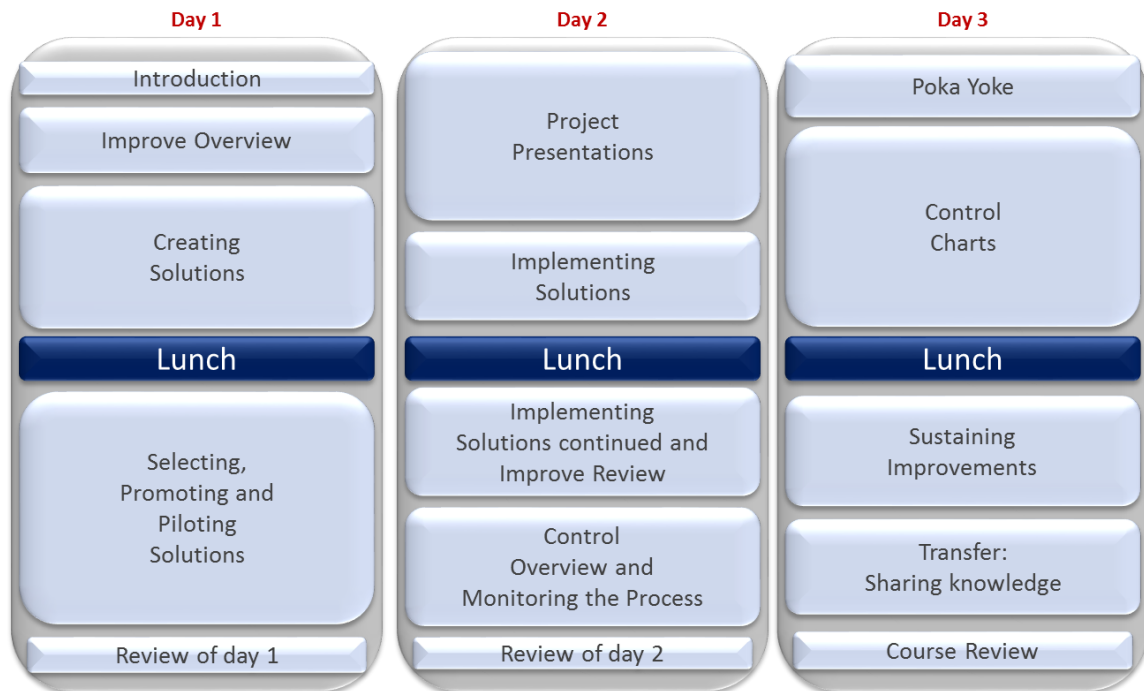


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The experts in delivering rapid business benefits
using Six Sigma & Innovation

Six Sigma Green Belt 10-day Training Course (Module 3)



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OBJECTIVES FOR GREEN BELT MODULE 3

IMPROVE

- Be able to apply tools and techniques to generate several potential solutions—selecting the best solution from alternatives, including criteria of cost-benefit, ease of implementation and customer focus
- Understand the importance of promoting and piloting the solution to minimise risk and maximise buy-in to the change
- Understand how to apply various forms of Design of Experiments to obtain a quantitative model for the performance metric(s) and truly understand the inter-relationships between the root causes of variation
- Recognise the application of hypothesis testing to prove that a difference has been made to a process
- Appreciate how to quantify and manage risks in implementation and develop robustness in the new process

Key Deliverable: Well justified, cost effective, bought-into solution, successfully implemented with improved Sigma level of performance and quantified benefits.

CONTROL

- Understand the importance of process monitoring to ensure sustainability of solution
- Understand how to choose and use appropriate tool from various control charts to monitor process performance
- Appreciate the impact of behaviours, rewards and measures on process performance

Key Deliverable: Process monitoring and feedback mechanisms managed by the process owner.

TRANSFER

Understand the importance and financial benefit of transferring solutions and disseminating learning throughout the organisation to multiply benefits

Key Deliverable: Lessons learned are captured and disseminated and benefits multiplied.



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