

What is a Six Sigma Green Belt?

Six Sigma Green Belts fulfil the roles of Process Improvement or Quality Improvement team members on full time Black Belt projects. A Green Belt team member can come from any level within an organisation and provide subject matter expertise for a project. They may be considered as leaders on certain projects that don't require the Black Belt level of analytical rigour. Six Sigma Green Belts are groomed in the Six Sigma DMAIC methodology which helps them to cascade Six Sigma tools and techniques throughout an organisation. Green Belt competence prepares individuals within an organisation to use simple Six Sigma tools and techniques to define, measure, analyse, improve and control processes.

Who is the course designed for?

This five-day course is designed to provide personnel from a manufacturing, service or transactional background with an understanding of the Lean Six Sigma Green Belt areas of knowledge and will help develop the critical skills required for successful project management. It is targeted towards:

- Process Engineers / Managers
- Quality Engineers / Managers
- Production Engineers / Managers
- Customer Service Managers
- Maintenance Managers
- Operations Managers

Skills gained on completion of the course:

- Structured problem-solving methodology for addressing business improvement projects
- Basic (and some advanced) quality / process improvement tools and techniques
- How to generate bottom-line financial results
- Understand the "Dos" and "Don'ts" of Lean Six Sigma
- Recognise the key attributes of a successful Lean Six Sigma programme
- Understand the role of a Green Belt in Lean Six Sigma implementation
- Appreciate the project selection process, prioritisation of projects etc.

Curriculum

The course consists of five days initial classroom-based training followed by completion of a project. The initial classroom-based training will cover:

- Six Sigma overview
- Six Sigma vs. TQM
- Six Sigma Metrics
- Six Sigma Methodology (DMAIC)
- Introduction to Lean Management
- Lean vs. Six Sigma
- Basic Tools of Lean
- Development of Project Team Charters
- Define and Map Process to be improved
- Introduction to basic statistics for Process improvement
- Project selection, prioritisation and review
- Understand Variation in Processes
- Statistical Thinking for all
- Seven tools of Quality Improvement
- Measurement System Analysis
- Hypothesis tests
- Cost of Poor Quality
- Control Charts
- Design of Experiments
- Process Capability Analysis
- Development of Control Plans and implement Monitoring System
- Critical success factors of Six Sigma
- Case studies and examples
- Exercises
- Discussion of Six Sigma Projects and guidance on execution of projects

Certificate of Performance Award

Course participants will be expected to carry out a continuous improvement project demonstrating a minimum of £25K in savings. On completion of the course, and the successful submission of a project report, delegates will be awarded a Certificate of Performance in Lean Six Sigma Green Belt training from University of Strathclyde.