



Course ID: S07X

CERTIFIED LEAN SIX SIGMA GREEN BELT (ISO13053)

Five all-day workshops, with continuous assessment & project work

1. What is this course about?

Lean six sigma enables all employees to work in collaborative teams to improve process performance and increase customer satisfaction. A Green Belt (GB) project leader is capable of leading a cross-functional team through a series of formal project and problem-solving steps. GB projects are short-projects (c. 8 – 20 weeks) that result in customer satisfaction and cost savings or additional revenue for the organization.

On this course you will learn that lean and six sigma are about teamwork, process management and customer service. It is designed to enable all participants, regardless of sector or previous education, to certify as a Lean Six Sigma Green Belt (CLSSGB). The course consists of a series of interactive workshops, individual and team exercises, graded assignments and project work. Your knowledge builds in a stepwise fashion, and you will be supported and encouraged throughout your learning journey. The software application used is MS Excel.

The course is facilitated with a minimum of 8 and maximum of 12 candidates.

2. What will you achieve?

On completion of the CLSSGB course, you will be able to

- define customer needs for a selected process;
- understand the value of cross-functional teamwork;
- use a range of problem-solving techniques to improve process performance;
- be able to lead a cross-functional team through project steps that will resolve process problems;
- quantify business and financial benefits for the organisation and the customer, and
- be primed to support other project teams in the execution of their projects.

Your project will deliver significant benefits to your organization, in terms of simplifying and standardizing processes.

Your customers will experience improved service levels.

When you attend the full course, complete all continuous assessment assignments, and present your improvement project, you will be awarded a Lean Six Sigma Green Belt certificate. The green belt certificate is a significant achievement and enhances your curriculum vitae.

3. Preparation

The Lean Ireland tutor will work with the course sponsor in advance of course commencement to select projects of suitable subject matter and scope.

We will also meet with sponsors in advance of course commencement to provide guidance on the role of the sponsor and the support required for GB candidates while the course is ongoing. This is an online meeting.

4. Workshop agenda

Day	Content
GB Workshop 1	Define: Intro to lean and six sigma, defining the project, team leader role, team member role, sponsor role, problem definition, goal setting, capturing the voice of the customer, SIPOC and process mapping, DMAIC A3 development for each candidate
GB Workshop 2	Process mapping continued, spaghetti mapping, Gantt chart, project costing and define stage gate review Measure: Data collection & process performance measurement, defects and defectives, RTY, A3 update
GB Workshop 3	Introduction to statistics, measures of location & spread, data collection & representation: run & Pareto charts, box plots, scatter diagrams, Histograms, MSA, A3 update
GB Workshop 4	Analyse: Cause and effect, 5 whys, FMEA risk analysis & mitigation (intro), correlation and regression, process capability analysis
GB Workshop 5	Improve & Control: Error proofing, standard work, quick changeover, piloting improvements, statistical process control - charts for attribute and variable data, training personnel & updating procedures, A3 update Certification process, review & close

Workshop format: In-house facilitated all-day workshop using PowerPoint, discussion, Q&A, individual and group exercises, case studies, DMAIC A3 project development, project mentoring and project presentations.

To facilitate learning-by-doing on projects, the workshops are typically scheduled in 3day + 2day format, approximately 3 weeks apart.

In addition to the above 5 all-day workshops, Lean Ireland provides onsite and online project mentoring, and certification review preparation.

5. Deliverables

- A completed GB project per candidate.
- Certification by a Lean Ireland black belt and customer site manager.
- The course pays for itself, several times over, within the first year following the training.

6. Certification Standard

This GB course is designed and executed in compliance with international standard [ISO 13053. Quantitative methods in process improvement – Six Sigma – Part 1: DMAIC methodology](#). Candidates are assessed based on a combination of workshop attendance, continuous academic assessment and completion of a project. The project, the sponsor and the candidates are all selected in advance of course commencement. As the course progresses, candidates progress is assessed via 3 separate online examinations. Some months following workshop completion, the certifying project is formally evaluated by an internal review board and a Lean Ireland six sigma black belt. The green belt certificate is awarded by the Lean Ireland and signed by a senior site manager and the Lean Ireland black belt.

7. Who is this course for?

The course is suitable for managers, supervisors, senior administrators, engineers, analysts, specialists and change agents who will be taking an active part in business process improvement. Knowledge of statistics is not required before attending the programme. The most successful

candidates are likely to be those who have supervisory experience, or who are well regarded as change agents within their workplace.

8. Course customization

Each Lean Ireland course is customised, at no additional cost, to suit the client's environment. As our tutors have extensive experience in a wide variety of sectors, all courses can be further customized as required by the client.

The curriculum can be expanded, if required and optional additional workshops include

- advanced data analysis techniques e.g. ANOVA, hypothesis testing, design of experiments, and
- a more detailed interactive workshop on lean techniques such as 5S, SMED and standard work.

9. Contact

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