

## SIX SIGMA ISO13053 GREEN BELT PROGRAMME

### Green Belt

A Green Belt (GB) project leader is capable of leading a cross-functional team through a series of formal project steps in order to enhance process performance significantly. GB projects are short-duration (12 – 24 weeks) quick-return initiatives that result in customer satisfaction and cost savings.

### Agenda

The programme starts with a preparation day with sponsors and GB candidates. The objective is to have committed sponsors engaged, and GB projects clearly scoped before formal GB workshops begin a few weeks later. The GB workshops are facilitated in 5 highly interactive workshops. To facilitate learning-by-doing on projects, the workshops are blocked as two separate sessions of 3 days and 2 days, approximately 4 weeks apart.

#### Preparation day with Sponsors & GBs

GB course objective, curriculum, the role of the sponsor & effective sponsorship, team problems, communication, A3 planning, project selection and scope, financial evaluation of benefits, certification process, gemba visits, preparation work for course.

#### GB Workshop 1

**Define:** Intro to lean, VOC, customer CTQ, defining the project, team leader role, team member role, sponsor role, problem definition, goal setting, Gantt chart, project costing  
Voice of the customer the customer the customer  
DMAIC A3 development for each candidate

#### GB Workshop 2

SIPOC and process mapping, spaghetti mapping, data collection & process performance measurement, defects and defectives, RTY, A3 update

#### GB Workshop 3

**Measure:** Introduction to statistics, measures of location & spread, data collection & representation: run & Pareto charts, box plots, scatter diagrams, Histograms, MSA, A3 update

#### GB Workshop 4

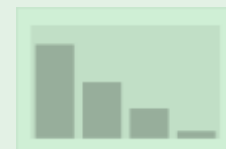
**Analyse:** Cause and effect, 5 whys, FMEA risk analysis & mitigation, process capability analysis

#### GB Workshop 5

**Improve & Control:** RFT and error proofing, piloting improvements, statistical process control - charts for attribute and variable data, A3 update  
Certification process, review & close

### Six Sigma

Six Sigma is an approach to continuous improvement that provides increased customer satisfaction by improving an organisation's processes. Six Sigma combines programme management, team-based project management, problem solving and statistical analysis in the continuous review and revision of processes that deliver value to customers.



Workshop format: Video, group interactive exercises, case studies PowerPoint, A3 exercises and data analysis exercises.

In addition to the above 5 workshops, optional extras include  
1 or 2 workshops on lean techniques,  
Project mentoring, and  
an exam preparation day.

## Learning objectives

At the end of this programme participants will be enabled to:

- Use a formal project management method and problem-solving tools to improve or eliminate process problems;
- Lead a cross-functional team through successful project completion;
- Quantify business and financial benefits for the organisation and the customer.

Participants who complete a live project, that meets predetermined criteria, will be eligible to apply for green belt certification.

Participants will be required to select a project on which to work during training. The company and the course facilitator will approve the project in advance.

## Deliverables

A completed project

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.

## Who should attend?

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

## Certification Standard

This GB course is designed and executed in compliance with international standard [ISO 13053](#). Candidates take a written examination and 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 organization, and signed by a senior site manager and the Lean Ireland black belt



## Contact

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