

NZOQ Certified Lean Six Sigma Green Belt

Course Code TGLS003P

Lean and Six Sigma deliver business goals and objectives through the rigorous application of proven improvement methodologies. Combining both these methodologies eliminates waste, increases value and reduces variation. By focusing on the customer and delivering benefits quickly it is possible to improve quality performance and profitability simultaneously.

Thornley Group Green Belt training is carried out by professional trainers who are experienced as senior management practitioners in both Six-Sigma and Lean. After 5 days of training, a written examination and satisfactory review of project material you will receive certification as a Lean Six Sigma Green Belt. Course details are as follows:

Course Duration

- 5 days classroom

Entry Requirements

- Candidates must have a basic working knowledge of algebra and be used to working with numerical data (See separate maths qualifier test). A familiarity with Computer Spreadsheets is also required.
- Candidates must have the authority to work on a project in their organisation as this is a mandatory requirement for certification. This should be a cost saving, defect reduction or other customer impact project.

Equipment Needed by Candidates

- Scientific Calculator.
- A lap-top computer loaded with Minitab software will be beneficial during the second module of the course (but not essential).

Course Contents

Our Green Belt training gives an extensive grounding in Lean Six-Sigma which covers in detail: Lean tools and techniques and business benefits, project set-up, DMAIC and all the associated statistical tools and techniques. Thornley Group Green Belt training is targeted at people who spend a significant amount of time involved in process improvement. This could either be as a process owner or a member of a team working on an improvement project. The Green Belt can be upgraded to a Black Belt certificate with only a further 5 days of training.

Using their practical experience of improvement programmes, along with simulation exercises, our trainers can take candidates through the process of applying the tools and techniques that they learn.

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Summary Course Contents

- Introduction to Lean Six Sigma and the DMAIC Project Process
- Establishing Projects
- Forming Teams
- Developing Project Team Charters
- Basic Project Management
- Mapping the process
- Customer Requirements
- Base-lining
- Variation and the Normal Distribution
- Collecting Data
- MSA
- Graphical Analysis
- Process Capability
- DFMEA and PFMEA
- Identifying, organising and verifying Causes
- Hypothesis Testing
- Regression Analysis
- Introduction to Design of Experiments
- Creating Solutions
- Selecting and Promoting Solutions
- Piloting
- Implementing Solutions
- Using Lean Methods
- Identifying Value
- Identifying Waste
- Value Stream Mapping
- Cycle time Analysis
- The Seven Wastes
- 5S
- TPM
- Visual Management
- Single Piece Flow
- Kanban
- Process Mistake Proofing - Poka Yoke
- Control Charting
- Sustaining Improvements
- Verifying Improvements
- Sharing the Knowledge Gained

After Completion of the course, candidates will sit a written examination. After successful participation in a project that delivers significant cost savings, defect reduction or other customer impact, Green Belt certification will be awarded.

100% attendance at the course is required to gain certification.

See the [Thornley Group](http://www.thornleygroup.co.nz) website for details of Public Lean Six Sigma Green Belt course dates and costs.