

Lean Six-Sigma

Green Belt

Course Code TGLS003

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 10 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

- 10 days (2 x 5 days)

Cost

- \$4995 + GST - NZOQ Members
- \$6200 + GST - Non Members

Entry Requirements

- Candidates must have a basic working knowledge of algebra and be used to working with numerical data. A familiarity with Computer Spreadsheets is also required.
- Candidates must have prior authorisation to work on a project from their parent organisation and bring details of that project at the beginning of the course. This should be a cost saving, defect reduction or other customer impacting project.

Equipment Needed by Candidates

- A lap-top computer loaded with Minitab software will be required during the course.
- Scientific Calculator.

Course Contents

Our Green Belt training gives an extensive grounding in Lean Six-Sigma which covers in detail the 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 leader of a team working on an improvement project. Being 10 days in duration it offers a greater depth and can be upgraded to a Black Belt certificate with only a further 10 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.

Module Contents - Lean Six-Sigma Green Belt

- 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
- QFD
- 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
- Theory of Constraints
- Process Mistake Proofing - Poka Yoke
- Control Charting
- Sustaining Improvements
- Verifying Improvements
- Sharing the Knowledge Gained

After Completion of Week 2, candidates will sit a written examination. After successful completion of 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.