



Lean Six-Sigma Yellow to Green Belt Upgrade

Course Code TGLSAU005

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 Yellow to Green Belt training is carried out by professional trainers who are experienced as senior management practitioners in both Six-Sigma and Lean. After completion of the training, you will be well equipped and eligible to sit the IASSC exam for certification as a Lean Six-Sigma Green Belt. Course details are as follows:

Course Duration

- 3 days classroom or 5 x 2½ hour online sessions

Entry Requirements

- Candidates must have a basic working knowledge of algebra and be familiar with numerical data (See separate maths qualifier test on our [resources page](#)). A familiarity with Spreadsheets is also required.
- Candidates should ideally have the authority to work on a project in their organisation as this will improve credibility. This should be a cost saving, defect reduction or other customer impact project.

Equipment Needed by Candidates

- Scientific Calculator
- Notepad & Pen

Course Contents

Our Yellow to Green Belt Upgrade 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 Yellow to Green Belt training is targeted at Yellow Belts 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 training provides the depth required to ensure that attendees gain all the knowledge required to be effective as a Green Belt.

The Green Belt can be upgraded to a Black Belt certificate with a further 5 days classroom or 8 x 2½ hours online training.

Lean Six-Sigma Yellow to Green Belt Upgrade

Programme Structure

The Define Phase

- Team Selection
- Project Management
- Building the Case for Change
- DMAIC Phase Reviews

The Measure Phase

- Data Normality vs Non-Normality
- Samples and Populations
- Affinity Diagrams
- Failure Modes and Effects Analysis (FMEA)
- Data Collection - Recording Methods
- Statistical Process Control (SPC)
- Process Capability
- Process Capability - Discrete Data
- Measuring Yield

The Analyse Phase

- Focused Problem Statement
- Multi-Vari Studies
- Hypothesis Testing
- Normal Data - Common Hypothesis Tests
- Non-Parametric Hypothesis Tests
- Common Hypothesis Tests for Proportion Data
- Regression Analysis
- Design of Experiments (DOE)

The Improve Phase

- Benchmarking
- Selecting the Solution
- Promoting the Solution
- Piloting the Solution
- Implementing the Solution

The Control Phase

- Control Chart Selection
- Control Charts for Normal Data
- Control Charts for Non-Normal Data
- Discrete Attribute and Count Charts
- Other Control Charts
- Sustaining the Improvement
- New Process Sigma
- Sharing the Knowledge
- DMAIC Project Review

Lean Thinking

- Takt Time & Cycle Time
- Bottlenecks
- Setup/Changeover Time Improvement
- Total Productive Maintenance (TPM)
- Do only what is Needed, When Requested.
- Visual Management
- Strive for Perfection (PDCA or DMAIC).
- Kaizen Blitz/Process Workout
- Barriers to Implementing Lean
- Sustainability of Improvements