

NZOQ Certified Lean Six Sigma Yellow Belt

Course Code TGLS006P

Lean and Six Sigma deliver business goals and objectives through the rigorous application of proven improvement methodologies. By focusing on the customer, and delivering benefits quickly, it is possible to improve quality performance and profitability simultaneously.

This course equips attendees to get started on the delivery of improvement activities straight away and provides the knowledge required to do this in a structured and measurable way.

Thornley Group Yellow Belt training is carried out by professional trainers who are experienced senior management practitioners in both Six Sigma and Lean. After 2 days of training, you will have a detailed awareness of the principles and application of Lean and Six Sigma methods. Course details are as follows:

Course Duration

- 2 days

Entry Requirements

- Candidates must have a basic knowledge of working with numerical data.

Equipment Needed by Attendees

- Scientific Calculator.

Certification

- There is no written examination for Yellow Belt. At the end of the training course a certificate of completion will be issued.

Course Contents

Our Lean Six Sigma Yellow Belt training provides an explanation of Lean Six Sigma methods, tools and benefits. It will prepare attendees for the task of operating in a Lean Six Sigma environment or for implementing Lean Six Sigma. Attendees will learn details of the Six Sigma DMAIC improvement methodology and will become fluent in the 'language' of Lean and Six Sigma. Thornley Group Yellow Belt training is targeted at people who spend time involved in process improvement. This could either be as a process owner or a member of a team working on an improvement project.

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

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Programme Structure

Introduction to Lean Six Sigma

- Why variation and waste undermine organisational effectiveness
- The focus on customers as a means of maximising performance
- The cost of poor quality and the business case for Lean Six Sigma

Harnessing the power of teams

- Developing the Project Team Charter
- Best practice methods for driving team performance

The Define Phase - Correctly defining business issues and problems

- Scoping and detailing the project objectives and relating to the 'Voice of the Customer'
- Six Sigma project alignment to strategic objectives
- Building a picture of business processes through process mapping

The Measure Phase - Managing by fact through measurement and data

- Understanding the different data types and appropriate measurement methods
- Brainstorming
- Affinity Diagrams
- Value Stream Mapping
- Integrated Flow Charting
- SIPOC
- Prioritising potential process issues using cause and effect and FMEA
- Using statistical concepts to collect and analyse business information
- Calculating the process sigma

The Analyse Phase - Identifying root-causes through analytical methods

- Using the 5-Whys and the 5W1H approach
- Focusing the problem through Pareto
- The use of Hypothesis Testing to verify the effects of causes on the process
- Scatter Diagrams and Correlation

The Improve Phase - Making Improvements and delivering the benefits

- Using data and creativity in a structured way to identify solutions
- Selecting the right solutions and managing change
- Implementing 5S
- Reducing Lead Times and Cycle Times
- Increasing Performance and Customer Satisfaction

The Control Phase - Controlling the process and sustaining the benefits

- Mistake proofing using 'Poka Yoke' methods
- Understanding the construction and use of control charts
- Sustaining improvements

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