

# Lean Six Sigma Yellow Belt

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## *Course Code TGLS006*

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 classroom or 3 x 2½ hours online

## *Entry Requirements*

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

## *Equipment Needed by Attendees*

- None

## *Certification*

- At the end of the training course, candidates will be eligible to take the Yellow Belt exam. After successfully passing the exam, a certificate 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, our trainers will take attendees through the process of applying the tools and techniques that they learn.

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## *Programme Structure*

### *The Define Phase*

- Introducing Six Sigma Thinking
- What is an acceptable performance?
- The History of Continuous Improvement
- Cost of Poor Quality (COPQ)
- Introduction to Six-Sigma DMAIC
- Six-Sigma Roles
- The Team Charter
- The Voice of the Business (VOB)  
Developing the Business Case
- SIPOC
- Customer Requirements

### *The Measure Phase*

- Introduction to Variation and the Normal Distribution
- Quantifying Variation by Counting Defects
- Collecting Data
- Data Collection Planning
- Cause & Effect (Fishbone) Diagrams
- Failure Modes and Effects Analysis (FMEA)
- X-Y Diagrams
- Gauge R&R
- Graphical Analysis

- Pareto Diagrams
- Process Mapping and Charting
- 5 Whys

### *The Improve Phase*

- Brainstorming Methods

### *The Control Phase*

- Process Control Planning
- Process Mistake Proofing
- Control Charts
- Sustaining the Improvement

### *Lean Thinking*

- The Lean Toolkit
- 5 Steps in the Creation of a Lean Organisation
- Value in the Supply Chain
- Eliminate Waste.
- Value Stream Mapping
- The Eight Wastes
- Barriers to Flow.
- Workplace Organisation - The 5S
- Do only what is Needed, When Requested.
- Visual Management
- Strive for Perfection (PDCA or DMAIC)

## *The Analyse Phase*