



TRAINING THAT DEVELOPS
REAL CAPABILITY



Lean Six Sigma Yellow Belt – QQI

Level 6

LSS025

Lean Six Sigma Yellow Belt – QQI Level 6

Lean Six Sigma is the combination of the two most effective business improvement initiatives of the past two decades. Lean, pioneered by Toyota, seeks to minimise waste, and optimise the speed of a process. Six Sigma, pioneered by Motorola, seeks to minimise defects, and maximise process capability. The marriage of Lean and Six Sigma has combined the best of both into a powerful weapon against waste and variation, enabling significant process improvements across all industries.

This three-day Yellow Belt programme uses a targeted and supported team-based approach to project-based problem solving. The recommended approach is to set-up several teams (with 3-4 members on each team), each team will apply the **DMAIC methodology (Define, Measure, Analyse, Improve and Control)** to a well-defined process improvement opportunity.

The programme structure is as follows:

- Day 1 focuses on the Define and Measure phases
- Following Day 1 the Teams will have an action plan to characterise and investigate the process opportunity
- Day 2 focuses on the Analyse, Improve and Control phases. Each Team will provide a detailed update on their project and progress on their assigned Project Work and will receive Tutor Feedback
- Following Day 2, the Teams will develop and implement an appropriate solution and verify its impact on the process performance
- Day 3 each team will meet the Tutor individually to review the Project objectives, deliverables, and documented improvements. The Tutor will mentor and advise the Teams before each team presents their project to the Tutor as part of their evaluation.

The course has little or no statistical content and will focus on identifying waste, using team tools, connecting knowledge-based tools, and identifying data collection requirements to improve process learning. The ideal spacing between Day 1 and 2 is three weeks with the same gap to the Day 3 mentoring Day.

Duration & Price

Duration: 3 days

Delivery mode: This programme is available In-Company

Dates & Locations

In-Company training programmes are customised for your organisations specific needs. Most In-Company training is now delivered virtually.

In-Company Training

Please [contact us](#) for more information on our In-Company training options

What's covered?

Day 1

Introduction

- Lean concepts – such as Valued Add and Non-Value Add and the 7 Traditional Wastes
- Six Sigma concepts - - such as the Process Transformation $Y=f(x)$, principles of variation and 'critical to' requirements (e.g. CTQ)

Core Tools for Define and Measure ('As Is' Process)

- DMAIC Methodology (Define Measure Analyse Improve Control)
- Project planning (Problem statement, goals, business case, scoping, milestones)
- Stakeholder Analysis and basic Communication Planning
- Basic graphical analysis – Pareto, Histogram, Run Chart (Time Series), Bar and Pie Chart Analysis
- Voice of the Customer (VOC)
- Process Mapping techniques (SIPOC in Define Phase and detailed flow charts in the measure phase)
- Data collection planning
- Brainstorming and cause screening

Day 2

Core Tools for Analyse, Improve and Control ('To Be' Process)

- Root cause analysis (5 Whys)
- Creative thinking (Anti-Solutions)
- Error Proofing
- Solution Screening (PICK Charts)
- Force Field Analysis
- Standardizations, Visual Management, and on-going Process Controls
- Project close-out

Day 3

Virtual Project Reviews and Mentoring

- Review of project progress based on agreed deliverables from days 1 and 2
- Mentoring as required to assist with the development and/or implementation planning
- Assistance with data analysis as appropriate
- Direction on tool usage based on project reviews
- Overall project advice to ensure a clear roadmap is agreed for ultimate project delivery and team certification
- Team presentation of the project to the tutor
- Review of assessment requirements

Who should participate?

This course is intended for small project teams seeking to improve the process in which they are working. Likewise, anyone in the organisation intending to participate on Lean Six Sigma Yellow Belt or Green Belt projects would benefit from this course.

Prospective projects and teams need to be agreed with the Company Representative in advance of the course with the team themselves electing a Team Leader.

Each team will have between two and five members and a minimum of two team members must have detailed knowledge and experience of the process being improved.

What will I learn?

Participants achieve the following learning outcomes from the programme;

- An understanding and knowledge of the concepts of Lean and Six Sigma and their application to process improvement.
- Practical competency in the application of the DMAIC methodology to a specific company project
- Delivery on a real-life project as part of a team-based effort using the tools and techniques of Lean Six Sigma
- Confidence to undertake future Yellow Belt projects and to act as Green Belt team members

What are the entry requirements?

Entry requirements are as follows:

- Minimum academic qualifications is a QQI Level 5 Certificate **OR** Relevant life and work experiences – APEL: learners are expected to have met minimum attributes for general learning at Level 5
- Prospective projects and teams must be agreed with the Company Representative and Tutor in advance of the course in line with guidelines set out above.
- For applicants whose first language is not English, SQT recommends a minimum English language competency of IELTS 6.0 (or equivalent) for successful completion of this programme. It is important to note that learners are not expected to have an IELTS or equivalent examination complete. Potential learners are expected to [self-assess](#) their English language competency against the IELTS Band scores which can be found in [this document](#)

How will I be assessed?

The Project must be submitted on Moodle (SQT's secure virtual learning environment) within the agreed using templates supplied. Assessment components including weighting are as follows:

- **40%** - A completed A3 Team Report
- **30%** - An Action Tracker demonstrating each individual contribution to the project (to include Workshop dates and Team attendance)
- **20%** - Oral presentation of the project to the tutor with all team members participating
- **10%** - An individual Learner Summary

Programme accreditation

This course is validated by [QQI](#) (FET) at Level 6 on the [National Framework of Qualifications](#). Successful learners will receive a Certificate in Lean Six Sigma Yellow Belt (10 FET Credits) - Course Code 6S21565.

Awards made by QQI are on the National Framework of Qualifications (NFQ). The NFQ provides a way to compare qualifications, and to ensure that they are quality assured and recognised at home and abroad. Qualifications (awards) in the NFQ are recognised in Ireland and abroad.

Tutors



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