



CLS Lean Sigma Training Program
Green Belt



CLS Green Belt Training Programme

(Leading Lean Six Sigma Projects)

Leading Continuous Improvement

Program Aim

The aim of this programme is to provide the trainee with the knowledge and skills to Lead and Deliver a Key Business Improvement Project. This is achieved through the understanding and utilisation of Lean and Six Sigma methodologies per ISO 13053-2:2011 "*Quantitative methods in process improvement*" and NSAI Swift 11 Driving Competitiveness using Lean. These tools focus on improving key Business metrics including improving Customer Satisfaction, Compliance, Cost, Delivery, and Supply

Program Objectives

At the end of this course, you will be able to:

- Understand the DMAIC improvement methodology and Six Sigma tools
- Apply the Six Sigma DMAIC methodology to a business improvement project
- Collect and analyse data using the appropriate Six Sigma tools.
- Apply Lean Methodology to a waste reduction project
- Understand team dynamics when delivering a project
- Achieve an approved recognised qualification



Expectations of A Green Belt

A Green belt is an invaluable resource to any organisation. Key roles that a Green Belt fulfils include:

- Leading a medium to large sized business improvement project team using the internationally recognised DMAIC methodology
- Lead Lean improvement projects
- Make data based decisions through the application of appropriate statistical tools
- Mentor Yellow Belt projects

Duration

- 5 Days Training
- 1.5 Days Examination & Project Mentoring
- Additional Mentoring Days optional

Target Audience

This course is aimed at personnel who are tasked with the execution of projects to improve business performance and/or data analysis in their day to day job. Roles that would benefit from this program include Engineers, Managers, Analysts, HR, Finance, Supply Chain, Team Leaders and Quality Engineers.

Delivering Real Results

Program Syllabus

Day 1 Introduction to Lean and Six Sigma

Introduction and benefits of Lean and Six Sigma and the DMAIC Methodology

Define Phase (Problem Charter, SIPOC, Process Map)

Graphical Presentation of Data

Team Management



Day 2 Define and Measure Phase

Value Stream Mapping

Seven Sources of Waste

Gauge Repeatability and Reproducibility (R&R)

Day 3 Measure and Analyse Phase

Process Capability C_p , C_{pk}

Identification and Verification of the Root Cause

Fishbone Diagram, Failure Mode and Effects Analysis (FMEA) 5 Why Analysis



Day 4 Improve Phase

Single Minute Exchange of Dies (SMED)

5s and Error Proofing

Statistical Process Control (SPC)

Day 5 Improve and Control Phase

Overall Equipment Effectiveness (OEE)

Introduction to DOE (Design of Experiments)

Control Plans

Day 6 & 7: Examination and Project Mentoring

Enhancing your Future

Assessment and Certification

For Green Belt certification, each candidate is required to:

1. Attend all training days
2. Pass a 3-hour open book, 100 multiple choice examination
3. Execute and Present Lean Sigma Project



Certification Body Crystal Lean Solutions

Project Examples

- Improve the Process Capability of a Moulding Process
- Optimise the Quality and Productivity performance of a Heat Treatment Process
- Investigate and eliminate the source of Product Contamination
- Reduce Changeover times using SMED
- Improve productivity of value stream through Kaizen event
- Streamline the Accounts Payable Process
- Standardise the Induction Training Process

“Data is of course important in manufacturing, but I place the greatest emphasis on facts”

Taiichi Ohno

About Crystal Lean Solutions

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Crystal Lean Solutions are Leading providers of Lean Transformation delivering sustained competitive advantage for clients. We are approved Lean Consultants for both the IDA and Enterprise Ireland.

Founded in 2008, we specialise in providing energised action based learning to ensure that everyone moves at the same pace. This ensures that you can apply the concepts in your working environment, with confidence. Each of our Trainers have a minimum of 20 years' experience with the practical application of Lean Six sigma to projects and how to train people on how to do the same.

Our Results:

- ✓ Trained over 2,000 professionals in Lean and Six Sigma
- ✓ Mentored over 300 projects
- ✓ 100% Satisfaction with quality of training
- ✓ Delivered over €500k annual savings per Green Belt program

Our Approach



Flexible

We adapt our programs, availability and location to meet your unique capability requirements



Simple

Easy to understand training Integrated with action based learning to maximise the learning experience



Results

Translate learning into business results through project execution

Support Available

Funding

Crystal Lean Solutions is an approved Consultant and Training Provider for the following organisations:

- Enterprise Ireland
- IDA
- Innovation and Lean Six Sigma Skills net (ILSS)
- Limerick Skills net



This provides clients with the opportunity of potential sources of funding given your specific training requirements. In the event that you are considering a Lean Business offer such as LeanPlus or LeanTransform, these courses may be delivered and funded as part of these programs.

For all other queries, the Skills net programs are very supportive of Learning and Development. To find out more, contact us.



Benefits:

- ✓ Futureproof your business through innovative thinking
- ✓ Deliver business improvements, quicker
- ✓ Develop Lean Change Agents
- ✓ Achieve an internationally recognised qualification
- ✓ Enhance your professional marketability

€500k Savings

Testimonials

“Course very interesting - new concepts and instructor was very knowledgeable and accommodating”

“Tailored to our requirements. A great advantage/opportunity is to get the teams using the documents on their own projects”

“Maria is an excellent trainer, always gave us a practical example and made sure we all understand the material”

“The course was tailored and very interesting. The team building and lean exercises were excellent”

Crystal Lean Solutions

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