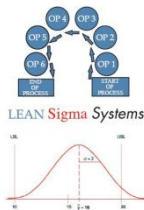


In-Company Six Sigma Green Belt Programme

Lean Sigma Systems has created the most comprehensive In-Company Six Sigma Green Belt programme available in Ireland. Learning from our clients knowledge and requirements, we have developed the most cost effective programme providing training, project mentoring, tutorials, *all* programme materials required including textbooks and software, certification costs, final presentation review, and both 6 and 12 month reviews. To date we have delivered in excess of 20 in-house programmes and the cost savings realised by our clients has ranged from €400,000 to in excess of €2,000,000.

Our programme is fully comprehensive, and equips our course participants and client companies to continually drive process improvement long after the training has finished - Multiple Client references are available on request to testify to this approach.

Certification Options



Option 1: Lean Sigma Systems Certification

Lean Sigma Systems has been in existence since 2006 and in that time has delivered in excess of 30 Six Sigma Green Belt programmes both internally for company clients and publically for individuals. Lean Sigma Systems although not an internationally recognised certification has excelled in providing customised and structured certification models for our clients that ensure all participants are equipped with the practical knowledge of Lean and Six Sigma as well as the theoretical knowledge. This certification can be achieved by attending workshops 1-7 which will prepare participants with Lean Sigma Systems certification. Candidates can expect to put in excess of 50 hours study for the exam. In excess of 50 hours of project work will need to be completed.

Course Costs: €10,500. *The course costs are based on a maximum of 12 participants attending and will reduce by €200 per participant below this maximum. (i.e. cost for 6 participants would be €9,300)*

Cost Includes:

- All Tutor Expenses
- Initial Q&A / Project Scoping Meeting
- SPC for Excel Software
- 7 Days Green Belt Training including
 - Soft copies of training material on USB
 - 2 Textbooks
 - Zipped Wallets, pads and pens

- 2 Days Onsite Mentoring
- 1 Day Exam Tutorial
- Final Lean Sigma Systems Project Presentation Day & Exam
- All Email & Phone support for the duration of the programme
- 6 month & 12 month company review to assist with ongoing process improvement



Option 2: ASQ Certification

ASQ (American Society for Quality) is recognised worldwide in over 80 countries www.asq.org. If candidates wish to pursue ASQ certification workshops 1-10 need to be completed. Candidates can expect to put in excess of 80 hours study for the exam. In excess of 50 hours of project work will need to be completed.

Course Costs: €15,000. *The course costs are based on a maximum of 12 participants attending and will reduce by €300 per participant below this maximum. (i.e. cost for 6 participants would be €13,200)*

Cost Includes:

- All Tutor Expenses
- Initial Q&A / Project Scoping Meeting
- SPC for Excel Software
- ASQ Registration & Examination Fee
- 10 Days Green Belt Training including
 - ASQ Exam Primer & CD
 - Soft copies of training material on USB
 - 2 Textbooks
 - Zipped Wallets, pads and pens
- 2 Days Onsite Mentoring
- 1 Day Exam Tutorial
- Final Lean Sigma Systems Project Presentation & Exam
- All Email & Phone support for the duration of the programme
- 6 month & 12 month company review to assist with ongoing process improvement

What is a Green Belt?

A Green Belt is a part-time Six Sigma programme member who will be able to lead a cross functional project team using a range of Six Sigma project management, problem solving and statistical analysis tools. Each training delegate must identify a strategic and comprehensive project which, with the guidance of Lean Sigma Systems, will be successfully completed. The project will deliver real improvement and substantial savings for the delegate's organisation. Six Sigma Green Belt projects form the majority of projects in an organisation running a Six Sigma programme. They are medium-duration (12 – 16 weeks) quick-return initiatives that result in customer satisfaction and cost savings. The Green Belt programme is a certified programme for which participants will have to complete a project, show

predetermined and quantified financial and business benefits, and pass a written multiple choice examination.

Initial Q&A / Project Scoping Meeting

Before the programme begins, Lean Sigma Systems provides an initial Q&A / Project Scoping Meeting. This meeting allows all interested parties to acquire answers for any questions that they may have about the programme. This meeting will also highlight the objectives of the programme, the associated timelines, the commitment required from participants and the Senior Team/Sponsors and the benefits of involvement. This day will also be used to assist the company in scoping out the projects that the participants will work on during the programme.

Lean Sigma Systems provide unlimited email & phone support to all the participants and Project Sponsors/Senior Team throughout the duration of the programme.

Programme Requirements

The participants attend the training with pre-determined projects selected in conjunction with Lean Sigma Systems that they will work on during the training and see out to a close. The participants will take projects from their own departments to work on as real time projects which will actively drive process improvement within their own organisation.

Programme Objectives

At the end of this programme participants will be able to:

- Use a formal project management method and problem solving tools to improve or eliminate process problems;
- Organise and drive process improvement projects which will target savings worth in the region of €30k per year
- Become the focal point in driving project teams and will drive a culture of Continuous Improvement
- Lead a cross-functional team through to successful project completion;
- Quantify business and financial benefits for the organisation and the customer.
- Certify as a Six Sigma Green Belt
- Demonstrate the ability to articulate and implement improvements and to display change management characteristics

<p>Six Sigma Green Belt Q & A Briefing Session / Project Scoping</p>	<ul style="list-style-type: none"> ▪ Brief all interested parties on the commitment required to embark on the Six Sigma Green Belt programme ▪ Project Scoping & Charter Definition
<p>Start of Programme-Block 1, Month 1</p>	
<p>Workshop 1- The Define Phase- Introduction to Lean & Six Sigma</p>	<ul style="list-style-type: none"> ▪ Introduction to Lean and Six Sigma ▪ Seven wastes in Lean ▪ 5 lean principles ▪ Lean game

Workshop 2- The Define Phase- Project Scoping and Initiation	<ul style="list-style-type: none"> ▪ Introducing the Define Phase ▪ Project Charter, quantifying business benefits, project planning ▪ Project sponsorship ▪ Meeting management ▪ SIPOC chart
Workshop 3- The Define Phase- Business Process Mapping and working with teams	<ul style="list-style-type: none"> ▪ Business process mapping ▪ Change management ▪ Communication ▪ Team building ▪ Motivation
Block 2, Month 2	
Mentoring Day 1 <i>3 to 4 weeks later approximately</i>	Each participant or team of participants (if working on the same projects) will meet with Lean Sigma Systems to discuss their project progress. It is expected that they have completed their charter, SIPOC and process map at this stage
Workshop 4- The Measure Phase	<ul style="list-style-type: none"> ▪ Introducing the Measure Phase ▪ Analysing Data and presenting ▪ Introduction to SPC for Excel ▪ Measurement selection, measurement systems analysis ▪ Attribute gauge repeatability & reproducibility
Workshop 5- The Analyse Phase	<ul style="list-style-type: none"> ▪ The Analyse Phase of the DMAIC cycle ▪ Introducing the 5 whys ▪ Fishbone/Cause & effect diagram ▪ FMEA
Block 3, Month 3	
Mentoring Day 2 <i>3 to 4 weeks later approximately</i>	It is expected that the teams have completed their data collection, fishbone and FMEA at this stage
Workshop 6- The Improve Phase	<ul style="list-style-type: none"> ▪ Introducing the Improve Phase ▪ Lean Tools and their application in the improve stage-5S, SMED, Mistake-Proofing, Kanban, Line Balance & Level Loading ▪ Process Capability

Workshop 7- The Control Phase	<ul style="list-style-type: none"> ▪ Statistical process control ▪ Run chart, variable control charts & attribute control charts ▪ Project review & critical success factors
Block 4, Month 4	
Six Sigma Green Belt Tutorial to prepare for LEAN SIGMA SYSTEMS Certification	
Lean Six Sigma Green Belt Exam & Final Presentation to Senior Team/Lean Sigma Systems <i>-4 weeks later approximately</i>	Each participant will sit the exam that morning and in the afternoon present their final project.
For ASQ Certification Workshop 8	<ul style="list-style-type: none"> ▪ Sampling ▪ Rolled Throughput Yield ▪ Descriptive Statistics ▪ Central Limit Theorem ▪ Distributions 1-Normal & Z Score ▪ Distributions 2- Binomial
Workshop 9	<ul style="list-style-type: none"> ▪ Hypothesis Testing ▪ Simple Linear Regression ▪ DOE
Workshop 10 Green Belt Tutorial to prepare candidates for ASQ EXAM	
Publically held ASQ Exam June or December	
6 Month Review & 12 Month Review	<p>To ensure maximum benefit has been achieved from the programme and that all participants are actively engaged in projects, Lean Sigma Systems provide unlimited email & phone support to all the participants for a period of 6 months after the programme has finished.</p> <p>Further to this Lean Sigma Systems also provide a 1 day review 6 months & 12 months after the programme has finished with programme participants and Senior Management.</p>

Lean Sigma Systems can accommodate between 4 - 12 participants on this programme.

3. Consultant Biography

Susan Clancy, NCEA Cert & Dip Eng, BSc

Principal Consultant, Trainer & Managing Director- Lean Sigma Systems



Susan has over fifteen years experience in Lean and Six Sigma Training and Consultancy. In this time she has worked within the Pharmaceutical, HR, Retail, Customer Services, Healthcare, Medical Device, Aviation, Electronics, Hotel and Catering, IT and Financial Services in the private and public sectors. An Engineering and Science honours graduate from Cork Institute of Technology and Dublin City University, Susan is a certified Six Sigma Black Belt from Air Academy Associates and American Society for Quality as well as a certified Lean Practitioner from University of Limerick. Through her directorship of Lean Sigma Systems and BPI Consulting she can boast a varied and very distinguished client base. She is a FAS registered trainer.

Donal O'Leary, BSc, C.P.I.M.

Consultant, Trainer & Managing Director – Metrology Systems & Services



Donal is a Registered and Certified Assessor with the Institute of Management U.K and a qualified ISO 9000 Auditor, he is also an Approved Assessor for the European Foundation for Quality Management Business Excellence Model. Donal has developed and presented both accredited and customized training programmes in Problem Solving, Team working, Continuous Improvement, Calibration, Statistical Process Control and Quality Assurance to the pharmaceutical, chemical, food, medical devices and motor components industries since 1992.

Maria Ryan, BEng, MBA

Consultant, Trainer and Managing Director – Crystal Business Solutions



Maria, a Six Sigma Blackbelt, has worked in various staff and managerial roles within Pharmaceutical, Aerospace, Medical Devices, Commercial and Chemical Industries over the past fourteen years. Maria established Crystal Business Solutions in 2008

offering companies' services in the area of Training, Project Management, Mentoring and Strategic Direction in the area of Lean and Six-Sigma. Maria's style ensures that tremendous energy is brought to radically improve processes. As a certified Train the Trainer, she engages the trainees to not only enjoy the training experience, but ensures that the trainee can apply practical tools upon their return to the working environment. Maria has a degree in Mechanical Engineering and a Masters in Business Administration from the University of Limerick which enhance the practical nature of the services provided.

Kevin Phelan, B Tech, MSc

Consultant, Trainer & Managing Director – Clanmaurice Training



Kevin, an ASQ certified Six Sigma Black Belt, graduated from the University of Limerick in 1989. He specialises in the area of Lean and Six Sigma toolkit skills transfer and has trained hundreds of personnel across all industry sectors including Pharmaceutical, Automotive, Electronics, Medical Devices, Semi Conductor and Services. A talented trainer, Kevin makes statistical methodology an interesting and lively learning experience. He holds a Masters Degree in Design of Experiments from the University of Limerick.