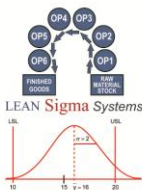


Internationally Certified Six Sigma Black Belt



This 20-day Six Sigma Black Belt includes all of the following:

- 17 highly interactive training days facilitated by expert trainers/consultants in a top class 4 * hotel
- 2 days in-company mentoring with each participant
- 1 tutorial day prior to the exam
- ASQ Registration & Exam Fee
- ASQ Six Sigma Black Belt Primer & Exam CD
- Minitab 15 license
- Participant pack which includes 4 textbooks, all course material on USB, pad and pen
- All training days include morning and afternoon refreshments and midday lunch

Course Dates:

Month 1: 4 Days

Monday 9th –Thursday 12th May 2011

Month 2: 5 Days

Monday 20th – Friday 24th June

Onsite Mentoring

Month 3: 5 Days

Monday 5th – Friday 9th September

Month 4: 3 Days

Monday 10th – Wednesday 12th October

Onsite Mentoring

Exam Tutorial:

February 2012. Day TBC

Course Fee:

€9,500 –1 participant

€8,500 –2 or more participants from same company

Special discount available if currently unemployed

Certification Body:

American Society for Quality (Recognised world wide in over 80 countries)

www.asq.org

What our past participants have said about the programme:

“The layout of the programme and the structure of the course days in terms of practical and theoretical learning, allowed me to cope with the detail and get a strong understanding of the material”

“The tutorial days onsite gave me the confidence to make some tangible improvements to one of our companies core processes”

“Very well structured course and the standard of lecturing was of an excellent quality”

“Very good mix of theory and practical exercises”

“Very happy, Susan is clearly passionate and knowledgeable about the subject”

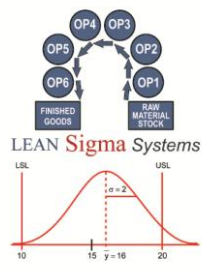
What can you and your employer expect from the programme?

- The knowledge acquired in becoming an ASQ Six Sigma Black Belt is highly sought after across all sectors. This expertise is vital to any company wishing to reduce costs and streamline their business.
- The knowledge and confidence gained from attending this programme has propelled many of our participants to new heights within their organisations.
- The participants on our Six Sigma Black Belt programmes to date, have achieved combined savings in excess of €3.2 million for their organisations.

Location: Cork

*This programme can also be run **in-house** anywhere in the country and is a much more cost effective option for 4 or more participants from the one company*

learning by doing



Six Sigma Black Belt for Services and Manufacturing

20 Day Programme, including 2 days in-company mentoring

Combined, Lean Sigma Systems clients have saved millions of Euros in utilising both Lean and Six Sigma to target and eliminate inefficiencies within their organisations. The participants on our Black Belt programmes to date, have achieved combined savings in excess of €3,200,000 for their organisations.

Lean Sigma Systems, is launching a **Six Sigma Black Belt** programme, which will be run on twenty days over ten months, commencing May 2011.

Lean Sigma Systems provides value for money to the client by enabling training delegates to complete successful cost saving projects. To achieve this we have designed a course which includes **2 days in-company project mentoring** with each individual participant to ensure return on investment for their organisation. Delegates will also be prepared for ASQ Black Belt Certification.

Who should attend?

Managers within any organisation who are keen on achieving profitability, sales and increased customer satisfaction. Internal consultants, change agents, project managers and facilitators who will be involved in driving Lean Six Sigma projects.

What are Six Sigma and Lean?

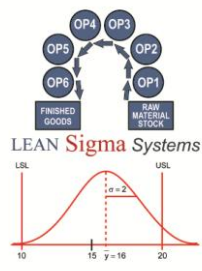
Lean and Six Sigma are two very successful methodologies that increase **Productivity and drive Continuous Improvement**. They enable companies to unlock the power of every individual, encourage innovation up and down the organisation and create a simple and direct pathway for every product and service. Lean is an approach to continuous improvement that seeks to **reduce and eliminate non-value added activities** from a process. Six Sigma uses a structured approach known as **DMAIC** (Define, Measure, Analyse, Improve and Control) to reduce variation and improve efficiency.

Lean Sigma Systems Ltd,
Ballyburden, Ballincollig, Co. Cork

Tel. 021 4878782 / 086-8607281/
086-0873220

info@leansigmasystems.com

www.leansigmasystems.com



Lean Sigma Systems is an Irish company and has been very successful in deploying both **Lean** and **Six Sigma** across many companies of all sizes in the Pharmaceutical, Healthcare, Medical Device, Financial, Services, in both Private and Public sectors.

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.

What can the participants and their organisation expect from the course?

- The participants will be focused in targeting, organising and driving projects which are expected to save in the region of **€100K +** within their organisation on an annual basis. They will become the focal point in creating project teams, train and mentor these teams and drive a culture of process improvement within their organisation
- Lean Sigma Systems encourage frequent contact between tutor and participants and will also spend **two days in the participants company**, 1 day during the course and 1 day afterwards to assist with the successful completion of their project.
- The participant will be registered with the **American Society for Quality** and be required for Black Belt certification, to sit the ASQ examination which is an internationally recognised qualification. The cost of becoming an ASQ member and exam registration is included in the course fee. A one day tutorial is held prior to the exam.

**ASQ Six Sigma Black Belt certification requires two completed projects with signed affidavits or one completed project with signed affidavit and three years of work experience in one or more areas of the Six Sigma Body of Knowledge.*

- The participant will receive a **Minitab 15** license
- The participant will receive a soft copy of the course on USB and receive the following textbooks

1. **Implementing Six Sigma – Breyfogle**

3. **The Goal – Goldratt**

2. **Six Sigma and Minitab - Brook**

4. **Memory Jogger – Goal QPC**

Course Fee

€9,500

Places are limited to 10 participants

Location

Cork

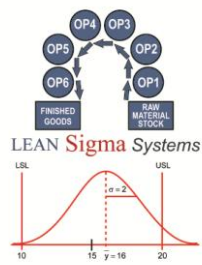
This programme can also be run In-house

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Course Presenters

Susan Clancy, NCEA Cert & Dip Eng, BSc, AMIEI

Consultant, Trainer & Managing Director- Lean Sigma Systems

Susan has over fourteen years experience in Lean and Six Sigma training and consultancy. In this time she has worked within the Pharmaceutical, Healthcare, Medical Device, Aviation, Electronics, Hotel and Catering, IT and Financial Services in the private and public sectors. Susan is a certified Six Sigma Black Belt from ASQ and Air Academy Associates, a certified Lean Practitioner from University of Limerick and FAS registered trainer.



Mick O'Callaghan B.E., M.Tech, C.Eng. M.I.E.I., F.C.M.A

Consultant, Trainer & Managing Director – Value Added Consulting

Mick is a Chartered Electrical Engineer and holds Fellowship of The Chartered Institute of Management Accountants. With experience in the Oil and Gas, Steel, Medical Device and Pharma Industries, Mick designs and delivers Training programmes in areas such as Finance, Problem Solving, Creativity, Strategy and Project Management



Kevin Phelan, B Tech, MSc

Consultant, Trainer & Managing Director – Clanmaurice Training

Kevin, an ASQ certified Six Sigma Black Belt, and has a Masters Degree in Design of Experiments. An expert in the areas of Lean and Six Sigma, Kevin's exceptional high level expertise and delivery style is evident from the high standard of results and feedback received from participants of all his programmes.



Donal O'Leary. B.Sc. C.P.I.M.

Consultant, Trainer & Managing Director- Metrology Systems

A Science Graduate, Donal is also an approved Assessor with the National Institute of Management U.K. and an accredited Internal Assessor for the European Foundation for Quality Management Business Excellence Model. Donal has also presented numerous City and Guilds, University of Oxford and Irish Management Institute accredited soft skills training programmes.

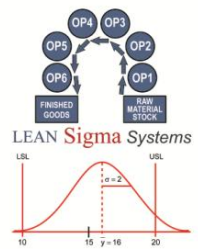


Maria Ryan, BEng, MBA

Consultant, Trainer and Managing Director – Crystal Business Solutions

Maria, a Six Sigma Black Belt, has worked in various staff and managerial roles within Pharmaceutical, Aerospace, Medical Devices, Commercial and Chemical Industries over the past fourteen years. Maria's style ensures that tremendous energy is brought to radically improve processes. Maria has a degree in Mechanical Engineering and a Masters in Business Administration from the University of Limerick.





Course Programme				
Workshop 1	Workshop 2	Workshop 3	Workshop 4	
Introduction to Six Sigma & Lean <ul style="list-style-type: none"> Participant Introductions Six Sigma & Lean Overview Lean Game 7 Wastes 5 Lean Principles 	Project Initiation <ul style="list-style-type: none"> Project Charter SIPOC Business Process Mapping 	Facilitating Project Teams <ul style="list-style-type: none"> Working with Teams Stages Teams go through Influencing Skills 	Creativity & Innovation <ul style="list-style-type: none"> What is Creativity Capturing Challenging Broadening Surrounding Innovation 	
Workshop 5	Workshop 6	Workshop 7	Workshop 8	Workshop 9
Introduction to Stats and MSA <ul style="list-style-type: none"> Introduction to statistics Introduction to measurement system analysis Variable gauge R&R Attribute gauge R&R Destructive gauge R&R 	Process Capability & Rolled Throughput Yield <ul style="list-style-type: none"> Process capability Rolled tput yield Sampling 	Root Cause Analysis <ul style="list-style-type: none"> 5 Whys Cause & Effect FMEA 	Distributions & Confidence Intervals <ul style="list-style-type: none"> Distributions 3 - Non Normal Confidence intervals 	Probability & Distributions <ul style="list-style-type: none"> Central Limit theorem Probability 1 Intro Distributions 1 - Normal and Z score Distributions 2 - Binomial
In-Company Project Mentoring- Day 1				
Workshop 10	Workshop 11	Workshop 12	Workshop 13	Workshop 14
Hypothesis Testing <ul style="list-style-type: none"> Hypothesis testing 1 - intro Hypothesis testing 2 - means Hypothesis testing 3 - variation Hypothesis testing 4 - proportions 	Analysing data from multiple variables <ul style="list-style-type: none"> Correlation and simple linear regression Multiple Regression ANOVA Multi vari analysis Multiple comparisons Residuals analysis 	DOE 1 <ul style="list-style-type: none"> DOE 1 Introduction to DOE DOE 2 Analysis DOE 3 Fractional Factorial DOE 6 Centrepoinnts and blocking 	DOE 2 <ul style="list-style-type: none"> DOE 5 Robust Design DOE 4 Response Surface DOE 7 EVOP Boot strapping DOE8 Mixtures 	Control Charts <ul style="list-style-type: none"> Introduction to control charts Variable control charts Attribute control charts Other control charts Wrap up session
Workshop 15	Workshop 16	Workshop 17		
Influencing Skills as a Black Belt <ul style="list-style-type: none"> Dealing with different teams Understanding challenges and conflicts within teams Being a successful change manager 	Lean Supply Chain <ul style="list-style-type: none"> Strategy & leadership Characteristics of world class organisations Strategy deployment & quality management 	Lean Supply Chain & Certification <ul style="list-style-type: none"> Value Stream Mapping Current & Future State Course Recap and Certification 		
In-Company Project Mentoring- Day 2				
ASQ Examination Tutorial February 2012-Workshop 18				
ASQ Examination March 2012				