

# Lean Sigma Black Belt

Special Purpose Award,  
QQI Level 8, 30 ECTS Credits

## Description

Stockil Continuous Improvement and CAMMS (The Centre for Advanced Manufacturing and Management Systems) at CIT offer QQI approved Lean Sigma courses. These courses are delivered by Continuous Improvement experts who educate and empower the student to achieve operational effectiveness within their organisations using Lean Sigma. There is a strong emphasis on the practical application of Lean Sigma methodology.

## What is a Lean Sigma Black Belt

Lean Sigma is a very successful methodology for continuous improvement in all organisations. Lean Sigma is based on the elimination of waste and the reduction of variability in processing through engagement and respect for all staff.

A certified **Lean Sigma Black Belt** is an expert in Lean Sigma philosophies and principles, including supporting systems and tools. A Black Belt will demonstrate team leadership, understand team dynamics and assign team member roles and responsibilities. Black Belts have a thorough understanding of all aspects of DMAIC/DMADV models. They have a thorough knowledge of Lean enterprise concept and are able to identify non-value added activities in a process and to use the appropriate tools to eliminate waste.

## Course Content

|                                    |                             |
|------------------------------------|-----------------------------|
| Introduction to Lean and Six Sigma | DMAIC Methodology and Tools |
| Change Management                  | Project Control             |
| Team Building and Facilitation     | Return on Investment        |
| Lean Sigma Supply Chain            | Critical Success Factors    |
| Measurement System Analysis        | Hypothesis Testing          |
| Regression                         | Control Charts              |
| Process Capability                 | Design of Experiments       |

## Project Mentoring and Support

A work-based project is undertaken as part of the course. Students will receive project support and mentoring.

## Online Support

Online resources are provided for students to support classroom learning.

## Entry Requirements

Level 6/7 qualification preferred. Green Belt qualified or several years work experience in a supervision role is required. Experience in Lean or Six Sigma principles is desirable.

## Who Should Attend

It is recommended for staff in a leadership role in their organisation.

## Fee €4750

We support the LeanStart, LeanPlus and LeanTransform programs. EI, IDA and other external funding options may apply.

Delivered by  
**Stockil Continuous  
Improvement**



Awarded by  
**Cork Institute of  
Technology**



## Locations:

### Cork

09, 22, 23, 29, 30 October  
2020

19, 20 November

04 December

07, 08 January 2021

04, 05, 25, 26 February

12 March

09, 29, 30 April

20 May

### Dublin

21, 22 January 2021

04, 05 February

04, 05, 25, 26 March

15, 16 April

13, 14 May

10, 11 June

09, 10 September

14, 15 October

11 November

## Apply Online at:

[www.stockilci.ie](http://www.stockilci.ie) or

[www.cit.ie](http://www.cit.ie)

## Enquiries:

[mark@stockilci.ie](mailto:mark@stockilci.ie) or

Mark at 086 6084894

## Our Corporate Clients say

### **Linda Brennan, Director Q2C Production and Fulfilment Readiness, Symantec Inc.**

*This certification has allowed Symantec Dublin to utilise the DMAIC cycle to create a cohesive approach to improvements in our business. We speak a common language, share common measurements, work on improve processes not just tasks. It removed the fear of change as we are now part of deciding what change makes sense to complete. It has given us the tools to be confident in sharing our stories to others, to get buy-in and remove fear. CIT has remained a colleague in our journey and has continued to give us the support and courage to make change happen."*

### **J. A. McNamara, CEO Cork University Hospital**

*For over eight years "CAMMS, CIT has been assisting us in optimising the performance of our operating theatres, of which there are 20, including resource deployment and process issues. We have begun to see substantial resource savings as a consequence of their work. We are anxious to develop further our relationship with CAMMS, CIT and we are deeply appreciative of the work they have undertaken with us to date."*

### **Billy Power, General Manager of SR Technics Airfoil Services**

*"CAMMS was one of the significant enablers of our company turnaround."*

### **Damien Carroll, Human Resources Manager of SR Technics Airfoil Services**

*"SR Technics Airfoil Services in Cork repair commercial jet engine airfoils for some of the world's most prestigious airlines and overhaul shops. The work carried out at the facility is exacting, critical and highly skilled. When we began our lean journey we were fortunate to team up with CAMMS CIT. They have provided our staff with training and education on their courses including White Belt, Yellow Belt, Green Belt and Black Belt in the past ten years. We have found these courses to be very well fitted to our business and an excellent investment in our workforce. The delivery, scope and content of the courses more than meet our needs and we have found that any suggestions by us or our staff for program improvement has always been taken on board. In addition, CAMMS CIT have been very willing to assist us with advice and expertise on many of our continuous improvement projects."*

### **Padraig Mallon Chief Executive Irish Guide Dogs for the Blind**

*"Irish Guide Dogs for the Blind is very grateful for the encouragement, mentoring and practical support which we have received from Mark Stockil and the team at CAMMS. Our Lean Sigma journey began 3 years ago and Mark has been with the management and staff throughout that time. A number of our staff had formal training as Yellow Belts, Green Belts and we have one person who has completed the Black Belt. All have reported that they found it very beneficial and were able to practically apply it to their work. Lean Sigma is helping us to make the type of progress we need in order to better serve our clients and volunteers and do it more efficiently. We are grateful to CAMMS and CIT for their support."*

## Our Students say

### **Bernadette Barber, Black Belt**

*"I came to the course with over 20 years of experience in the quality field in the electronics sector. I have been very impressed with the depth and relevance of the course content and delivery. There is a good balance of practical and theoretical work and all levels of QA experience are catered for from the novice to the experienced. to assist if needed." The tutors are experienced practitioners of the tools and are very supportive and readily available*

### **Hillary Cronin, Black Belt**

*"The Lean Six Sigma Black Belt Course is very appropriate for the current business climate, being able to help a business improve its efficiency and effectiveness is something that is very attractive to employers. I implement the knowledge I have gained on a daily basis. Having a workforce educated with Lean Six Sigma is something that can be promoted as Ireland continues to present itself as an attractive location for doing business."*

### **John O'Neill, Black Belt**

*"I completed the Lean Sigma Black Belt Course at Cork Institute of Technology. The course was professionally delivered to the highest standard in a relaxed and friendly environment. Course assignments and workgroup tasks were thought provoking and invaluable in gaining understanding of the lean six sigma concepts that were being taught. Lecturers were supportive and eager to help at all times. I would highly recommend this course to anyone who is interested in learning alternative methods of thinking and approach."*