

# Certificate in Lean Six Sigma Green Belt



## >> **What is a Lean Six Sigma Green Belt?**

Six Sigma is a set of techniques and tools for process improvement. Six Sigma seeks to improve the quality of process outputs by identifying and removing the causes of defects in manufacturing and business processes. Six Sigma identifies several key roles for its successful implementation. Green Belts are the employees who take up Six Sigma implementation along with their other job responsibilities, operating under the guidance of Black Belts.

The training provided through the Certificate in Lean Six Sigma Green Belt provides participants with strong problem solving skills developed through the implementation of the DMAIC (Define, Measure, Analyse, Improve, Control) model. Learning to use many of the Six Sigma problem solving methodologies and statistical tools will equip participants with valuable skills to effect meaningful change in their organisations.

## >> **Participant Profile**

The Certificate in Lean Six Sigma Green Belt is suitable for employees who spend some of their time on process improvement teams or in analyzing and solving quality problems. Typical participants include managers, internal consultants, change agents, project managers and team leaders and should be working under the supervision of a Six Sigma Black Belt.

## >> **Duration**

The programme is delivered over a period of 3.5 months involving 6.5 class contact days and 21 hours of online delivery

This programme is delivered by ITB in association with Trigraph Professional Services. While candidates who complete the Lean Six Sigma Green Belt Programme will have the capability to sit the American Society for Quality (ASQ) Six Sigma Green Belt examination, eligibility will be determined solely by the ASQ

## **>> Course Objectives**

On completion of this course, participants will be able to:

- ☐ Understand the concept of Six Sigma and the DMAIC approach to process improvement.
- ☐ Understand the tools involved in the Define, Measure, Analyse, Improve and Control phases.
- ☐ Understand the use of the tools in characterising processes, analysing process data, solving problems and controlling processes.
- ☐ Use the key tools to solve practical business problems.
- ☐ Lead small Six Sigma project teams or assist Black Belts to deliver tangible business results on larger projects.

## **>> Course Content**

### **Lean Principles and DMAIC – Design and Measure**

Business and Organisational Factors

Team Management and Facilitation Skills

Principles of lean Thinking

Descriptive Statistics

The Six-Sigma Paradigm

The Define and Measure Stages

### **DMAIC – Analyse, Improve and Control**

Probability

The Analysis Stage

Hypothesis Testing

The Improvement Stage and Identification of Solutions

The Control Stage and Conclusion of Projects

## **>> Assessment**

The programme is accredited at Level 7 on the National Framework of Qualifications for 15 credits.

Assessment involves in-class tests, assignments, end of module exams and a project report and presentation.

## **>> Course Project**

Participants will be required to select a project on which to work during and after the training course. The participant's organisation and the course facilitators will approve the project in advance.

## **>> Course Fee**

€2,500 (includes course documentation)

## **>> Contact Details**

For further details and dates of programme delivery contact [thelinc@itb.ie](mailto:thelinc@itb.ie)

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