



Lean Six Sigma

Green Belt - International

Course descriptive

Lean Six Sigma is an organizational approach to continual improvement which focuses on removing activities from processes that add no value whilst minimizing the variability of key process outcomes.

The Lean Six Sigma Foundation Green Belt continual improvement training course will provide you with the skills to be able to use continual improvement techniques to enhance levels of quality and efficiency within your organization. You will learn how to apply the DMAIC approach, the methodology behind Lean Six Sigma.

The course has been designed for anyone who anyone who wants to make step change improvements in quality and efficiency and is an excellent starting point on the pathway towards becoming an ISO 18404 Certified Six Sigma Green Belt or Lean Practitioner.

Having undertaken this interactive and highly practical three-day course, our expert tutors will ensure that you feel confident that you apply the knowledge and implement continual improvement techniques as soon as you step back inside your organization.

Pedagogical objectives

- Gain confidence in explaining Lead Six Sigma frameworks for continual improvement
- Lead continual improvement teams through the DMAIC process
- Develop professionally
- Network with like-minded peers

Skills to be acquired

Upon completion of this training, you will be able to:

- Obtain a basic level of Lean Six Sigma improvement,
- Recognize the concepts of Lean Six Sigma and the DMAIC Process steps,
- Support Green and Black Belts as a team member to participate effectively in improvement projects, and
- Apply the improvement tools learned in day-to-day job activities.

Targeted audience

Anyone who wants to apply effective and structured continual improvement techniques and methodologies to help their organization make step-change improvements in quality and efficiency.

Prerequisites

Attendance to the following BSI training course:

- Lean Six Sigma Yellow Belt training course, or through the Recognition of Prior Learning (RPL) process.
- There is some pre-course reading required that will be sent to delegates a week before the course

Duration

3 days – 21 hours

Pedagogical, technical and framing means

Course materials including:

- Introduction to the training, detailed program and security assignments
- Course presentation, theory and activities/ role plays
- Answers to the activities
- Videos
- Additional documents, distributed during the sessions, to use for the activities
- Attendance sheet to be signed

Assessment specifics

- Questionnaire to assess the knowledge at the end of the training
- Customer survey

What is included?

- Course materials, provided electronically
- Letter of attestation
- Official certificate

Agenda – Day 1

Time	Subject
09:00	Welcome and introductions
	Overview of course aim, learning objectives, and course structure
	Voice of the customer - How to define your customers and their voices - The Kano Model - Identifying and relating CTQ to VOC
	Lean Six Sigma Project Selection - How to define and select Lean Six Sigma Project - Lean Six Sigma Project Documents
	Data Collection Plan - Purpose of collecting data - Types of data - Data collection plan - Data collection methods
	Functional Process Maps - Process Maps: what and why - Process Maps: guidelines - Process Maps: levels and steps - Other types of process Maps
	Process Analysis - Adding customer value - Ideal state process map and gap analysis
	Final questions and wrap-up day 1
17:30	

Day 2

Time	Subject
09:00	Welcome to day 2
	Fundamentals of 5S and Visual Management • 5S workplace organization and standardization methodology • Visual management
	Fundamentals of mistake proofing • Zero defect quality • Errors and defect • The six principles of error proofing • Poka-Yoke implementation
	Introduction to descriptive statistics • Basic statistics • Measures of central tendency/location • Measures of dispersion/variation/spread • Measures of shape • Descriptive statistics using Excel
	Introduction to graphical tools • Pareto diagram • Histogram • Box and whisker plot • Dot plot • Run chart • Scatter diagram
17:00	Final questions and wrap-up day 2

Day 3

Time	Subject
09:00	Welcome to day 3
	Introduction to Measurement System Analysis • Definition and importance of Measurement System Analysis (MSA) • Key aspects of a Measurement System • Basic Statistical Concepts • Accuracy: Stability, Bias, and Linearity • Precision: repeatability and reproducibility • Gage R&R • Attribute Agreement Analysis
	Introduction to Process Capability Study • Process Capability Analysis • Process Capability Analysis for Discrete Data • Process Capability Analysis for Continuous Data • Short-term and Long-term Capability Measures
	Introduction to Control Charts • A process in Control • Causes of Process Variation • Charts for controlling a process • Control chart limits
	Process Control and standardization • Process Control and defect prevention • Project Closure and storyboard
17:00	• Course summary and next steps • End of course



*These training modules are eligible to the subsidizing by the public institutions in France (OPCO).

**Each delegate receives a training convention after the enrollment.

***Please note that for the public sessions, you have until 48h before the start of the course to confirm your enrollment. For the in-house sessions, the deadline would be of two weeks prior to the start of the course.

****Should you be in a disabled situation, please contact us and indicate what details should be taken into account.

You can contact us on training.france@bsigroup.com or **01 89 79 00 40**.