



QUALITY AND PRODUCTIVITY

Certified Lean Six Sigma Green Belt

Professional training programme



SPARK TRAINING

Professional training courses for leaders, specialists, and organizations seeking practical capability development.

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— Workshop Overview

Six Sigma is an industry-standard methodology for process improvement and business transformation. Our Green Belt course is aligned with ASQ and IASSC's (known for their comprehensive and robust content) international Body of Knowledge (BOK). This unique Green Belt Six Sigma course will help you improve the quality of your organization's operations by adopting a data-driven approach. It will also give you the skills to work on projects that benefit all processes and businesses. Participants will learn the different phases of Define, Measure, Analyze, Improve, and Control (DMAIC) and how to craft a project charter. Additionally, they will learn about quality tools and statistics to support them while formulating problem statements and translating them into a measurable format. Participants will also be provided with the means to assess their organization's readiness to launch Six Sigma projects. Join us to become a certified Six Sigma practitioner like the thousands of Six Sigma professionals we have successfully trained over the last 20 years.

Why Attend

Through interactive lectures and group and individual presentations, the course will allow participants to practice the skills they have acquired through exercises and case studies. Additionally, videos will be shown on companies that implemented the Six Sigma methodology. Throughout the course, a case study will show

Who Should Attend

Managers, supervisors, and professionals who wish to fully utilize the Six Sigma approach in their organizations or gain professional certification or learn how Six Sigma relates to work and business improvement.

— Learning Objectives

- Explain Six Sigma and its importance to drive and sustain business improvement
- Examine the define stage components and generate the project charter
- Discuss the measure, data sampling, and collection stage using various tools in Minitab
- Explore the analysis stage using various graphical analysis charts and tests
- Evaluate the improve and control stages using various Six Sigma tools
- Distinguish between Six Sigma methodology (variation removal) and Lean thinking (waste removal)

Course Outline

DAY
1

Overview: Six Sigma History

- Understanding Six Sigma
- History of Six Sigma
- What is Six Sigma?
- Gurus' contribution
- Six Sigma roles and responsibilities
- Cost of Poor Quality (COPQ)
- Process metrics

DAY
2

Define Phase

- Voice of the customer / Critical to Quality (CTQ)
- Selecting projects
- Developing the project charter and problem statement
- SIPOC diagram
- Acceptability & Introduction to Change Acceleration Process (CAP)
- RACI and ARMI
- Case study

DAY
3

Measure Phase

- Introduction to Six Sigma calculations
- Process capability indices
- Introduction to Minitab
- Types of data and basic statistics
- Data collection planning
- Sampling of data
- Understanding the Xs which affect process Ys
- Measurement plan
- Measurement Systems Analysis (MSA)
- Advanced process capability
- Normality analysis

DAY

4

Analyze Phase

- The Seven Classic Quality Tools: A review
- Statistical Process Control (SPC): Control charts
- Selection of variables
- Control chart selection and analysis
- Process mapping
- Qualitative Analysis (QA)
- Failure Mode Effect Analysis (FMEA)

DAY

5

Improve and Control Phases

- Introduction to graphing
- Scatter plots
- Process Modeling Regression
- Advanced Process Modeling
- Designing experiments
- Six Sigma control plans
- Evaluating and selecting solutions
- Introduction to hypothesis testing
- Pilot testing
- Project closeout and handover
- Day 6: Lean Thinking and Six Sigma
- Defining Lean
- Lean thinking principles
- Types of waste (MUDA)
- Lean versus Six Sigma
- Lean toolbox
- The visual factory and 5S
- Mistake proofing - Poka Yoke

— Upcoming Classroom Dates

DATE	LOCATION	FEE
12 - 16 October 2026	Barcelona - Spain	€1,925
9 - 13 November 2026	Paris - France	€2,250
14 - 18 December 2026	Frankfurt - Germany	€1,625
18 - 22 January 2027	Amsterdam - Netherlands	€2,125
15 - 19 February 2027	London - United Kingdom	€2,100
15 - 19 March 2027	Istanbul - Türkiye	€1,425
19 - 23 April 2027	Vienna - Austria	€2,125
17 - 21 May 2027	Barcelona - Spain	€1,925

— Certificate and Registration

Participants who attend and complete the full programme receive a SPARK Training Certificate of Completion. For registration, in-house delivery, or availability questions, contact info@sparktraining.eu or +31 85 115 0004.