informatech



QUALITY AND PRODUCTIVITY | COURSE

Certified Lean Six Sigma Green Belt

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Course content

Why Attend

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.

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 how Six Sigma can be applied within an organization.

By the end of the course, participants will be able to:

• 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

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.

• Deploying Six Sigma

• Problem-solving



Course content

Why Attend

- Critical thinking
- Using applied statistics
- Lean principles

Course outline

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

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



Course content

Course outline

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

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)

Improve and Control Phases



Course content

Course outline

- 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

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



Seminar dates

Available seminar dates

Live dates and pricing for Certified Lean Six Sigma Green Belt generated from the course details page.

Date	Location	Format	Fee
14 - 18 December 2026	Frankfurt - Germany	Classroom	**€2,600.-**
18 - 22 January 2027	Amsterdam - Netherlands	Classroom	**€3,400.-**
15 - 19 February 2027	London - U.K	Classroom	**€3,360.-**
15 - 19 March 2027	Istanbul - Turkey	Classroom	**€2,280.-**
19 - 23 April 2027	Vienna - Austria	Classroom	**€3,400.-**
17 - 21 May 2027	Barcelona - Spain	Classroom	**€3,080.-**
21 - 25 June 2027	Paris - France	Classroom	**€3,600.-**
19 - 23 July 2027	Frankfurt - Germany	Classroom	**€2,600.-**
16 - 20 August 2027	Amsterdam - Netherlands	Classroom	**€3,400.-**
20 - 24 September 2027	London - U.K	Classroom	**€3,360.-**
18 - 22 October 2027	Istanbul - Turkey	Classroom	**€2,280.-**
15 - 19 November 2027	Cape Town - South Africa	Classroom	**€3,400.-**
20 - 24 December 2027	Barcelona - Spain	Classroom	**€3,080.-**

Live online option	Online delivery is available at €1,850.-.