

Lean Six Sigma Green Belt Course

What is the Lean Six Sigma Course:

The Lean Six Sigma methodology is the synthesis of two globally recognized approaches, Lean and Six Sigma, which aim respectively to remove whatever that does not create value for the Customer and reduce the variability of processes in order to not make defective performance/products.

Through a structured path articulated according to 5 phases "DMAIC" (Define-Measure-Analyze-Improve-Control), the approach provides that, for each problem, it is possible to identify and take action against triggers for effects, instead of, as more frequently happens in the traditional approach, wasting time and using useless efforts to try to eliminate effects without have first properly identified root causes.

Thanks to this methodology, many companies have achieved significant financial savings over the years, increasing the profitability of organizations.

What is the Green Belt certification:

The Lean Six Sigma Green Belt certification course offers a business management strategy to gain the knowledge and techniques to improve independently performances of key processes and related economic results.

The certification consists of a classroom training part (with practical and interactive activities) and a part of project development according to the methodology learned.

The certification is issued according to official standards of the organization "BQF British Quality Foundation" and is universally recognized.

Methodology goals:

- Optimization and increase of process quality
- Optimization of data, information or material flows
- Reduction of process losses and defects
- Improvement of performances to Customers

Who is the course for:

This training course is suitable for all company figures who want to manage improvement projects according to the practice of Lean Six Sigma methodology:

- Directors, Managers
- Engineering and R&D Managers
- Marketing Managers
- Quality Managers
- Purchasing Managers
- Product Manager
- Project Manager
- Process Engineers
- Continuous Improvement Professionals

Complete certification path:

The course is designed and delivered according the international ISO 13053 and British Quality Foundation standards and consists of

- Training: 9 days of classroom
- Final test (minimum rate 80%)
- Coaching: 3 sessions of coaching for each project
- Development of a complete project (3/6 months long)
- Final project survey: 1 day
- Final certification with project review by a board of expert members

Project development:

Project development will be carried out in the participant's business context and supported by Coaching activities. The Project Leader will learn the methodology and its applications through phases of the DMAIC path and support by the coaching of an expert Master Black Belt figure.

Lean Six Sigma Green Belt Course

Agenda classroom days (or via web):

- DAY 1: Introduction to LSS
- DAY 2: Phase **Define** – Part 1°
- DAY 3: Phase **Define** – Part 2°
- DAY 4: Phase **Measure** – Part 1°
- DAY 5: Phase **Measure** – Part 2°
- DAY 6: Phase **Analyze**
- DAY 7: Phase **Improve** – Part 1°
- DAY 8: Phase **Improve** – Part 2°
- DAY 9: Phase **Control**

Coaching and survey days:

There are 3 days of coaching on the project to be scheduled based on the projects time progress. At the end of the project there will be an additional day for the final survey and the closure of the project. Timetable and modalities of these days are to be agreed with course participants.

About the trainer:



Andrea Greco. Senior professional with extensive international experience in continuous process improvement, operational management, in monitoring and leading company KPI's and customer service levels.

Active in Lean Six-Sigma since 2003, Master Black Belt and "BQF Licensed Assessor, Master Trainer & coach".

Main topics:

- VOC Analysis
- Process Mapping Techniques
- Building a Project Charter
- Cost of Quality Theory
- Planning and implementing data collection
- MSA - Validation of measurement systems
- Data analysis using statistical tools:
 - Histogram
 - Box Plot
 - Pareto Chart
 - Run Chart
- Theory of Normal Distribution
- Normality Test
- Defect Metrics
- Yield Calculation & Process Capability
- Process Sigma Analysis
- Cause - Effect Analysis
 - Ishikawa Diagram
 - 5 Whys Method
 - Correlation Analysis
 - Regression
 - Test of hypotheses
- Generation of solutions
- DOE Design Of Experiment
- Lean Applications:
 - Standard Work
 - Cellularization
 - 5S
 - SMED - Single Minute Exchange of Die
- Statistical Process Control (SPC)
- Control Charts:
 - Charts for Variables & Attributes