



QUALITY AND PRODUCTIVITY | QP-009

Lean Six Sigma Black Belt Concepts for Leaders

Contact

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Course content

Why Attend

Lean Six Sigma Black Belts lead complex improvement projects that deliver significant financial and customer benefits. Leaders who understand Black Belt concepts can select better projects, coach teams and sustain results.

This Aractech course covers advanced Lean Six Sigma concepts: DMAIC leadership, project selection and chartering, advanced measurement and statistical analysis, hypothesis testing, regression, design of experiments overview, control strategies, change leadership and deployment management. Participants work on a case project and analyse real datasets.

Course Methodology

- Case project
- Statistical analysis exercises
- Group problem solving
- Leadership discussions
- Presentations

Course Objectives

- Lead DMAIC projects and select high-value improvements
- Apply advanced measurement and capability analysis
- Use hypothesis testing and regression to identify root causes
- Understand design of experiments and optimisation
- Implement control plans that sustain gains
- Manage Lean Six Sigma deployment and change

Course content

Target Audience

- Green Belts progressing to advanced roles
- Continuous improvement managers
- Quality and operations leaders
- Project sponsors

Course outline

Detailed course outline

Day-by-day outline for Lean Six Sigma Black Belt Concepts for Leaders.

Day 1 - Black Belt Leadership

- 09:00-09:39 | Role of the Black Belt
- 09:39-10:18 | Project selection
- 10:18-10:57 | Chartering
- 10:57-11:00 | Stakeholders
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Stakeholders (continued)
- 12:05-12:43 | Deployment models
- 12:43-14:00 | Exercise: Project selection matrix

Day 2 - Measure and Analyse

- 09:00-09:39 | Measurement systems
- 09:39-10:18 | Process capability
- 10:18-10:57 | Data stratification
- 10:57-11:00 | Hypothesis testing
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Hypothesis testing (continued)
- 12:05-12:43 | Regression
- 12:43-14:00 | Lab: Statistical analysis

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Day 3 - Improve

- 09:00-09:34 | Solution generation
- 09:34-10:41 | Design of experiments overview
- 10:41-11:00 | Lean tools
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Lean tools (continued)
- 11:45-12:19 | Piloting
- 12:19-12:53 | Risk assessment
- 12:53-14:00 | Workshop: Improvement design

Day 4 - Control

- 09:00-09:39 | Control plans
- 09:39-10:18 | Statistical process control
- 10:18-10:57 | Standard work
- 10:57-11:00 | Handover
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Handover (continued)
- 12:05-12:43 | Benefits tracking
- 12:43-14:00 | Exercise: Control plan

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Day 5 - Leading Change and Deployment

- 09:00-09:45 | Change leadership
- 09:45-10:30 | Coaching Green Belts
- 10:30-11:00 | Portfolio management
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Portfolio management (continued)
- 11:45-12:30 | Sustaining culture
- 12:30-13:15 | Lessons learned
- 13:15-14:00 | Capstone: Project presentation

Seminar dates

Available seminar dates

Live dates and pricing for Lean Six Sigma Black Belt Concepts for Leaders generated from the course details page.

Date	Location	Format	Fee
9 - 13 November 2026	Rome	Classroom	€3,460
14 - 18 December 2026	Munich	Classroom	€3,225
18 - 22 January 2027	Istanbul	Classroom	€1,978
15 - 19 February 2027	Rome	Classroom	€3,460
15 - 19 March 2027	Istanbul	Classroom	€1,978
19 - 23 April 2027	Vienna	Classroom	€3,225
17 - 21 May 2027	Barcelona	Classroom	€2,815
21 - 25 June 2027	Rome	Classroom	€3,460
19 - 23 July 2027	Geneva	Classroom	€4,315
16 - 20 August 2027	Istanbul	Classroom	€1,978

Seminar dates

Available seminar dates

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Date	Location	Format	Fee
20 - 24 September 2027	Rome	Classroom	€3,460
18 - 22 October 2027	Istanbul	Classroom	€1,978
15 - 19 November 2027	Cape Town	Classroom	€1,625
20 - 24 December 2027	Barcelona	Classroom	€2,815
9 - 13 November 2026	Online / Live	Online / Live	€1,815
14 - 18 December 2026	Online / Live	Online / Live	€1,815
18 - 22 January 2027	Online / Live	Online / Live	€1,815
15 - 19 February 2027	Online / Live	Online / Live	€1,815
15 - 19 March 2027	Online / Live	Online / Live	€1,815
19 - 23 April 2027	Online / Live	Online / Live	€1,815

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