In-person tailored course

ILSSI CERTIFIED
LEAN SIX SIGMA GREEN BELT COURSE

2026

BUSINESS IMPROVEMENT CONSULTANCY

F L O W

STREAMLINE PROCESSES
IMPROVE QUALITY
MAXIMISE VALUE

Flow – Business Improvement Consultancy
Lean Six Sigma Green Belt ILSSI Certified Course

Course overview

The Green Belt programme develops confident improvement leaders who can run structured projects, analyse data and deliver measurable results. Over five intensive days, you'll deepen your understanding of Lean and Six Sigma tools, learn how to work with stakeholders across functions and gain the skills to reduce variation, cut waste and improve performance in complex processes.

Who should attend

- Supervisors, managers and specialists who will lead improvement projects
- Yellow Belts ready to progress to a more advanced role
- Continuous improvement, operations, quality and service professionals
- Organisations looking to develop an internal cohort of improvement project leader

What you'll learn

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

- Use the DMAIC framework to structure improvement projects from problem definition through to control
- Apply a wide range of Lean tools (waste identification, flow analysis, SMED, Kanban, visual management, standard work, 5S) to create efficient, stable processes
- Conduct root cause analysis using FMEA, Fishbone, Pareto and other prioritisation techniques
- Work confidently with data and statistics – types of data, distributions, capability, correlation and regression – using Excel, Minitab or SigmaXL as appropriate
- Understand and perform Measurement System Analysis and basic hypothesis tests to ensure decisions are based on reliable data
- Design and implement control plans and control charts to sustain the gains after implementation

Course format & assessment

- 5-day training – delivered on-site (in-person) or live online by an experienced Lean Six Sigma Black Belt
- Course content tailored to your industry, with examples and exercises built around your real processes
- ILSSI Green Belt online exam (100 multiple-choice questions, 2 hours allowed) after training
- ILSSI Green Belt certificate to download, print and share on your CV and LinkedIn profile

What's included

- Pre-course scoping call (for in-house groups) to align content and select potential projects
- Course workbook, templates and tools you can reuse on future projects
- Guidance on scoping, chartering and reporting projects for maximum impact
- Post-course support options (e.g. coaching on live projects) available on request

Investment

- **£2,725** per participant
- **Volume pricing available (**up to **60%** per-person reduction for **10 delegates).**

Curriculum

1. Fundamentals of Process Improvement	40. Graphical Analysis
2. General History of Lean Six Sigma	41. Histograms
3. Principles of Lean and Six Sigma	42. Box Plots
4. Voice of the Customer, and Business	43. Run Charts
5. Lean Six Sigma Belt Roles	44. Measurement System Analysis
6. Defining a Process	45. Precision & Accuracy
7. Inputs and Outputs	46. Bias, Linearity & Stability
8. The 8 Elements of Waste	47. Gage Repeatability & Reproducibility
9. Sustainable Processes	48. Variable & Attribute MSA
10. 5S	49. Process Capability
11. Critical to Quality (CTQs)	50. Capability Analysis, Cp, Cpk, Pp, Ppk
12. SIPOC	51. Long term vs Short term Variation
13. Process Mapping	52. Analyse Phase of DMAIC
14. Value Stream Mapping	53. Y=f(x)
15. Flow and Bottlenecks	54. Scatter Plots and Correlation
16. Single-Piece-Flow	55. Correlation Coefficients
17. Poka-Yoke (Mistake Proofing)	56. Simple Linear Regression
18. SMED (Quick Changeover)	57. Regression Equation
19. PULL and Just-in-Time	58. Digital Transformation (Introduction)
20. Kanban	59. Smart Technology (Introduction)
21. Visual Management	60. Hypothesis Testing basics
22. Standardised Work	61. Hypothesis Testing Uses
23. Kaizen and Kaizen Events	62. Practical vs. Statistical Significance
24. PDCA	63. Alpha & Beta Risk
25. Root Cause Analysis	64. p-values
26. Cause & Effect / Fishbone Diagrams	65. Types of Hypothesis Test
27. Pareto Principle / Pareto Charts	66. T-Tests
28. Industry 4.0 (Introduction)	67. Designed Experiments
29. Lean Six Sigma Projects	68. OFAT
30. DMAIC basics	69. Full Factorial Experiments

31. Define Phase of DMAIC	70. Full Factorial Designs
32. A3 Reports	71. Improve Phase of DMAIC
33. Measure Phase of DMAIC	72. Implementation Plans
34. Failure Mode & Effects Analysis	73. Control Phase of DMAIC
35. Six Sigma Statistics	74. Control Plans
36. Use of Excel, Minitab or SigmaXL	75. Statistical Process Control (SPC)
37. Descriptive Statistics	76. Data Collection for SPC
38. Different Types of Data	77. Types of Control Charts
39. Normal Distributions & Normality	

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