

COURSE ONBOARDING GUIDE

Lean Six Sigma Black Belt

Welcome aboard. Everything you need to know before you start — what you'll learn, how the course works, and what happens when you pass.

★★★★★ 4.9

Trusted by thousands of practitioners worldwide



Welcome to Black Belt

This is the highest credential we offer online. You'll lead organisation-wide projects with advanced statistics, hypothesis testing and an MBB-reviewed capstone — all taught in plain English.

75

EXAM QUESTIONS

75%

PASS MARK

Lifetime

COURSE ACCESS

Self-paced

LEARN ANYTIME

What's covered

- ✓ **Black Belt project leadership:** managing multiple simultaneous projects, mentoring Green Belts, and reporting to executive sponsors
- ✓ **Advanced Design of Experiments:** fractional factorials, response surface methodology, and mixture designs
- ✓ **Advanced regression:** logistic regression, stepwise regression, non-linear models, and model validation
- ✓ **Time series analysis and forecasting:** autocorrelation, ARIMA models, and seasonal decomposition
- ✓ **Advanced hypothesis testing:** power analysis, sample size calculations, equivalence tests, and non-parametric alternatives
- ✓ **Statistical Process Control (SPC) programme design:** chart selection across the full range, rational subgrouping, and SPC deployment at organisational scale
- ✓ **Simulation and modelling:** Monte Carlo simulation, process simulation, and risk quantification
- ✓ **Change management and organisational behaviour:** Kotter's 8 steps, stakeholder analysis, resistance mapping, and communication planning
- ✓ **Lean-Six Sigma integration at programme level:** combining VSM, DMAIC, and Kaizen into a unified improvement system
- ✓ **Strategic deployment:** building an internal improvement capability, training pipeline, and board-level reporting structure

By the end, you'll be able to

- ✓ Lead complex, multi-phase Black Belt projects with financial benefits of £100k+ per project
- ✓ Mentor and quality-review Green Belt and Yellow Belt projects across a programme
- ✓ Design multi-factor experiments and use the results to optimise critical process parameters
- ✓ Build an SPC deployment plan and manage ongoing statistical monitoring across a site or value stream
- ✓ Use simulation to model risk, capacity, and the impact of proposed changes before committing resources
- ✓ Lead change management on major improvement initiatives using a structured model
- ✓ Report programme-level impact to boards and investors in financial and strategic terms
- ✓ Build an internal improvement capability by designing training pathways and coaching structures for junior belts

How the exam works

A 75-question final exam plus a mini-project submission, taken online whenever you feel ready. Score 75% or higher to pass — you get unlimited attempts, so there's no pressure. Learn at your own pace and sit the exam only when you're confident.

What you'll receive

A Black Belt certificate of completion, a digital badge for LinkedIn, and lifetime access to every lesson and resource — so you can come back and refresh any tool whenever a real project calls for it.



SimplicityHub® is a recognised training provider for the Council for Six Sigma Certification (CSSC) — so your Black Belt certificate carries external, third-party recognition, not just our own word for it.

Where Black Belt fits in your journey

Black Belt is the top of the core belt ladder, building directly on Green Belt. From here, most learners move into the specialist Lean Associate, Practitioner and Advanced tracks.



Ready to build real momentum?

Once you pass your exam, keep an eye on your inbox — we occasionally send existing learners a discounted invite to the next belt up. No pressure, just an easy way to keep progressing if and when you're ready.

We're genuinely glad you're here — welcome to SimplicityHub®. If anything is ever unclear on the course, or you just want to talk through a real project you're working on, our inbox is always open.

SimplicityHub® Team

Training Academy