



Lean Six Sigma Green Belt to Black Belt Upgrade Online

Streamlined Black Belt training for Green Belt practitioners



Course At-A-Glance

Appropriate For: Green Belts who want to upgrade their skills and become Black Belts.

Length: 108 hours of instruction, 1 year to complete course at own pace

Cost: \$1,000 without statistical software

CEUs: 10.8

Materials Required: Minitab statistical analysis software is required and can be purchased during checkout on an annual or perpetual basis

Prerequisites: Green Belt status with basic knowledge of Lean and Six Sigma concepts and techniques, recommended reading

Certification: This course does **not** include certification. In order to be certified by the Lean Methods Group, you must enroll in our classroom course and meet all of the certification requirements.

About Lean Six Sigma Green Belt to Black Belt Upgrade Online

This course develops Lean Six Sigma Green Belts into Black Belts who can solve more challenging problems and lead improvement teams across a wider spectrum of processes in any environment, including transactional, service, manufacturing, healthcare and financial.

Featuring the same world-class curriculum as our classroom version, this online course prepares future Black Belts to solve a wide variety of difficult problems by drawing on both quantitative and qualitative methods from the complementary domains of Lean and Six Sigma, change leadership skills, and creative-thinking techniques for when out-of-the box solutions are required.

The Upgrade to Lean Six Sigma Black Belt Online course is delivered through our interactive, HTML-based eLearning system, offering accessibility and ease of use across both desktop and mobile devices (closed captioning is available). Courses are complete with engaging visual content and animated modules, as well as activities and real-world case studies. Students master the learning modules at their own pace and in their own time.

Featuring a practical and applied focus, this online course includes training, quizzes and exams.

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Learning Objectives

Upon completion of this course, you'll be able to:

- Apply such Lean concepts as 5S, waste reduction, process mapping, value stream mapping and mistake proofing
- Define, scope and execute DMAIC projects
- Apply a variety of DMAIC tools to business issues and transition projects from phase to phase
- Apply basic and more advanced statistical analyses to determine the relationship between key inputs and process outputs
- Effectively manage team dynamics and understand how to work with multiple levels of leadership to remove barriers and achieve project success
- Close projects and hand over control to process owners
- Present projects to instructors, peers and managers

Agenda

Define

Five Principles of Lean
Kano Analysis

Contingency Tables & Chi-Square
Central Limit Theorem (Optional)
Mean & Variance Testing
Supplement (Optional)

Control

Survey Design and Analysis

Measure

Variable Measurement Systems -
Level 2 + Validation Checklist
Stability & Common Probability
Distributions

Improve

Future State Value Stream Maps
Preventing Human Error
Kanban
Introduction to Design of
Experiments (DOE)
Basic Factorial Experiments
Fractional Factorial Theory
Fractional Factorial Practical
Designed Experiments
Evaluating Solution Ideas

Analyze

Confidence Intervals
Simple Linear Regression &
Correlation
Sample Size
ANOVA - Analysis Variance

To register for this course, visit leanmethods.com/upgrade-online
or call +1 (303) 827-0010.