



LEAN SIX SIGMA BLACK BELT COURSE OUTLINE

LEAN SIX SIGMA BLACK BELT

Duration

5 full days

Participants

Up to 12 participants

Formats

F2F and / or Virtual

COURSE OBJECTIVES

- 01** Expand the understanding of the DMAIC methodology, building upon Green Belt knowledge.

- 02** Learn how to lead more complex projects and understand more advanced statistical tools.

- 03** Understand Fractional Factorial Experiments.

- 04** Learn when to use Full Factorial vs Fractional Factorial experiments.

- 05** Understand the Steepest Ascent/Descent experiment method.

- 06** Learn how to monitor Process Capability in the Control Phase.

- 07** Understand how to assess Capability of a process with non-normal output.

- 08** Prepare for Lean Six Sigma Black Belt certification.

LEAN SIX SIGMA BLACK BELT COURSE CONTENT OUTLINE

Day 1

Define

- 01**
- Six Sigma fundamentals
 - Six Sigma origins
 - How to select Six Sigma projects
 - The lean organization
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Day 2

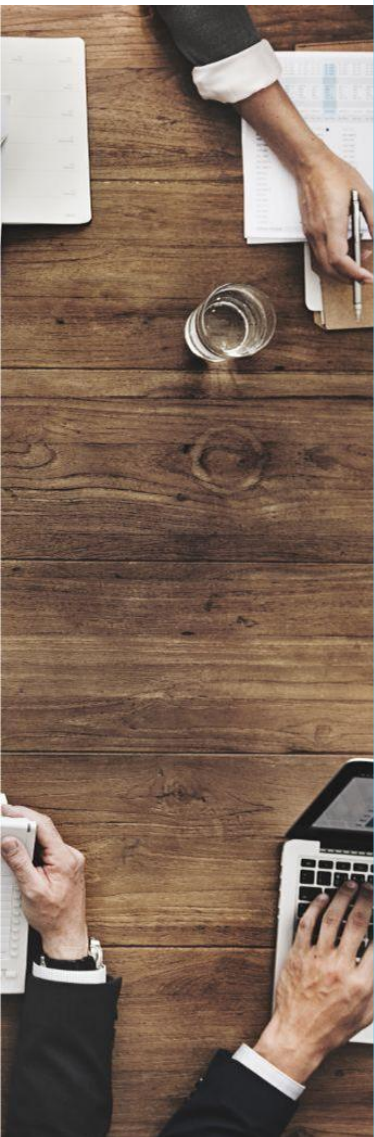
Measure

- 02**
- Process definition
 - Six Sigma statistics
 - Measurement System Analysis
 - Process Capability
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Day 3

Analyze

- 03**
- Types of variation
 - Inferential Statistics
 - Hypothesis tests
 - Hypothesis tests – normal data
 - Hypothesis tests – non-normal data
-



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Day 4

Improve

04

- Simple Linear Regression
- Multiple Regression Analysis
- Design of Experiments
- Experimental Methods
- Full Factorial Experiments
- Fractional Factorial Experiments

Day 5

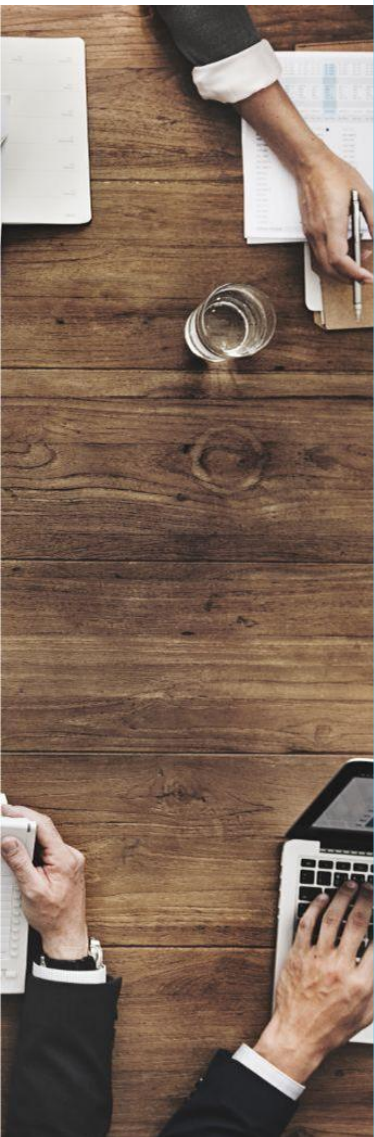
Control:

05

- Lean Controls
- Statistical Process Control (SPC)
- Advanced Experiments
- Advanced Process Capability
- Six Sigma Control Plans

06

- Wrap Up
- Solve Black Belt exam sample questions





LET'S LEARN TOGETHER!

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