

Lean 6 Sigma Black Belt training (b-learning)

Introduction



SIXSIS and LMG (Lean Methods Group: www.leanmethods.com), offer the possibility to carry out this training in the b-learning regime (blended learning):

140 hours of e-learning (in English) + 8 hours of support (English, Portuguese or Spanish)

This is an excellent opportunity for everyone who wants to embrace into the Lean 6 Sigma journey and obtain the **Black Belt certification**. Above all, it is about leveraging each person's most valuable asset: knowledge.

It is a training certified by IACET and recognized by numerous global reference companies: ABB, Siemens, TNT, John Deere, GSK (GlaxoSmithKline) among others.

Certification

T2D-Train2Deliver™

The certification process is divided into 2 steps:

1. **Theoretical certification:** execution of exams for each module;

An approval certificate for online exams will be delivered (classification of 70% min).

2. **Practical certification:** approval of the Improvement project report;

Participants must submit a report of the improvement project carried out. This report will be subsequently analyzed by a Master Black Belt and if approved, the **Black Belt** certificate will be issued.

Curriculum



Define

- Introduction to Lean 6 Sigma; 5 Principles of Lean; Project Scoping; High-level Process Maps; Six Sigma Metrics; Project Definition; Pareto Charts; Change Management; Introduction to Minitab; Introduction to Statistics; Building Teams; Six Sigma Roles and Responsibilities; Kano Analysis; Job to be done (optional).

Measure

- Leading and Communicating Change; Creating Awareness and Change Need; Data Collection; Measurement Systems for Attribute and Variable Data (Gage R&R) - Level 2; Process Maps; Value Stream Maps (VSM); 8 Types of Waste; Capability Analysis; Common Probability Distributions: Normal, Continuous and Discrete; Understanding Process Stability; Process Analysis tools.

Analyze

- Shaping a Vision/Mission; Building Commitment; Fishbone Diagrams; Cause&Effect Matrix; Failure Mode Effect Analysis (FMEA); 5S; Flow; Spaghetti Diagrams; Graphical Analysis; Confidence Intervals; Hypothesis Testing; Basic Tests of Hypothesis; Simple Linear Regression and Correlation; Sample Size for Estimation and Hypothesis Testing; ANOVA; Contingency Tables and Chi-Square.

Improve

- Keeping Change Momentum; Future Value Stream Maps; Brainstorm Techniques; Mistake Proofing; Preventing Human Error; Pull; KANBAN; Introduction to DOE; Basic Fractional Experiments; Fractional Factorial; Designed Experiments; Advanced Regression; Evaluating Solution Ideas; Creating a Pilot Experiment Plan; Introduction to Innovation.

Control

- Making Change last; Control Methods; Building a Control Plan; Introduction to Statistical Process Control (SPC); Constructing Control Charts; Plan-Do-Study-Act (PDSA); Survey Design and Analysis; Project Closure.

Price, payment terms and registration

Minitab® 19



Price

3,200 €

(this includes access to the e-learning platform, a license of Minitab v.19 software worth € 800 and 8 hours of remote support by a Master Black Belt); both access to e-learning and the software are valid for 12 months.

Note: VAT is added to the mentioned prices at the legal rate (current rate: 23%)

Payment terms

- 100% with registration (3,200 € + VAT)

Registration

Email a copy of this document to training@sixsis.com, by filling the fields below:

Name: _____

email: _____

Mobile: _____