

# Lean 6 Sigma GB2BB training (Green Belt to Black Belt) b-learning

## Introduction



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

**108 hours of e-learning (in English) + 6 hours of support (English, Portuguese or Spanish)**

This is an excellent opportunity for everyone who has already participated in a **Green Belt training**, to take another step forward in their Lean 6 Sigma certification process and consequently obtain **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™**

To access this certification, it is necessary that candidates have already participated in a Green Belt training. 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).

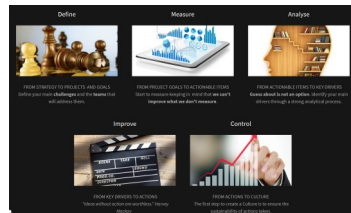
2. **Practical certification:** approval of the Improvement project report;

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

- 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.

## Price, payment terms and registration

Minitab® 19



### Price

**2,100 €**

(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 (2,100 € + VAT)

### Registration

Email a copy of this document to [training@sixsis.com](mailto:training@sixsis.com), by filling the fields below:

Name: \_\_\_\_\_

email: \_\_\_\_\_

Mobile: \_\_\_\_\_