

# Lean Six Sigma Black Belt Blended Learning (IASSC®)

Duration: approx. 45 hours study time/ 365-day access / IASSC® exam voucher included

Discover our Lean Six Sigma Black Belt blended training (IASSC®) with certification included!

This Lean Six Sigma Black Belt training and certification course is designed to help you master the combined concepts of Lean and Six Sigma. This course will help you develop an in-depth understanding of the Six Sigma phases Define, Measure, Analyze, Improve and Control (DMAIC) and how to maximize customer value while minimizing waste.



**Are you absent during virtual training sessions? No problem, you will receive the recordings of the sessions and you can watch them at your own pace!**

This blended training & Certification package includes

- 40 hours of blended training: 9 hours of online self-paced learning and 36 hours of instructor-led training
  - Online classes with a wide range of time slots
  - Recording of virtual classes available in case of absence
  - 4 Lean Six Sigma Black Belt simulation exams
    - 35 PDUs offered
    - Two-course end projects
    - Six end-of-chapter quizzes
    - Experiential learning through case studies
  - The Lean Six Sigma Black Belt IASSC® certification



## COURSE & LEARNING OBJECTIVES

**At the end of this Lean Six Sigma Black Belt training, you will know how to:**

- **Apply Lean concepts** such as 5S, waste reduction, process mapping, value stream mapping, and mistake proofing
- 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

## Course Curriculum

- **Session 00: Course Introduction**
- **Session 01: Define Phase**
  - Lesson 01: The Basics of Six Sigma
  - Lesson 02: The Fundamentals of Six Sigma
  - Lesson 03: Selecting Lean Six Sigma Projects
  - Lesson 04: The Lean enterprise
- **Session 02: Measure Phase**
  - Lesson 01: Process Definition
  - Lesson 02: Six Sigma Statistics
  - Lesson 03: Measurement System Analysis
  - Lesson 04: Process Capability
- **Session 03: Analyze Phase**
  - Lesson 01: Classes of Distribution
  - Lesson 02: Inferential Statistics
  - Lesson 03: Hypothesis Testing
  - Lesson 04: Hypothesis Testing with Normal Data
  - Lesson 05: Hypothesis Testing with Non-Normal Data

- **Session 04: Improve Phase**
  - Lesson 01: Simple Linear Regression
  - Lesson 02: Multiple Regression Analysis
  - Lesson 03: Designed Experiments
  - Lesson 04: Factorial Experiments
- **Session 05: Control Phase**
  - Lesson 01: Lean Controls
  - Lesson 02: Statistical Process Control (SPC)
  - Lesson 03: Six Sigma control Plans
- **Practice Projects**

## WHO SHOULD ATTEND?

---

- Senior management (especially if the company intends to implement Lean Six Sigma)
- Team leaders
- Software professionals
- Project managers
- Quality assurance engineers
- Software quality assurance team members
- Management students

## PRE-REQUISITES

---

There are no prerequisites required to sit for the IASSC Certified Lean Six Sigma Black Belt exam. Formal Lean Six Sigma training from a verified Lean Six Sigma trainer or corporate program is suggested if applicants want to increase their chances of passing the exam. It is also recommended that exam takers have some degree of real-world Lean Six Sigma work experience

## CERTIFICATION DETAILS AND CRITERIA

---

This Lean Six Sigma Black Belt Certification follows the flipped classroom model. The online self-paced content acts as the pre-read material for the live sessions. **The learner needs to complete the online self-paced videos, attend live sessions and pass both the projects and assessments to get the certification.**

## EXAMINATION GUIDELINES

---

- Official International Association for Six Sigma Certification (IASSC)/PeopleCert exam voucher
- Online proctoring exam any time, 7 days a week, 24 hours a day
- Exam available in English and French
- 4-hour multiple-choice paper
- 150 questions with a pass mark of 70 %
- Closed book exam
- Holders of Lean Six Sigma - IASSC® Certified Black Belt™ are required to be re-certified within 3 years from their original certification.
- Rescheduling an exam up to 48 hours before the start time is free of charge. Subsequent rescheduling is subject to an additional fee.