training code: ZP-LSSBen / ENG DL 7d / EN

IASSC Lean Six Sigma Black Belt-accredited training with exam

Lean Six Sigma is the most popular business performance methodology in the history of corporate development.

The Lean Six Sigma (LSS) certifications are designed to support corporate in their mission to improve customer satisfaction, boost performance levels, and shorten the time-to-market. Self-employed professionals and consultants are looking to benefit from the above-average salary level provided by Lean Six Sigma certification and its potential for cross-industry application.

Lean focuses on efficiency through the minimization of waste, errors, and delays, while Six Sigma focuses on quality and consistency through processes improvement and variation reduction. The combination guarantees cost and time efficient products and services of the highest quality.

Lean Six Sigma is made of three levels, or ‘belts’, that provide a complete array of techniques for optimising production processes, cost efficiency, and product quality.

Training recipients

Lean Six Sigma is aimed at professionals wishing to understand and apply the Lean Six Sigma principles and instruments in order to work effectively with, or as a member of, a process improvement team. Lean Six Sigma is suitable for:

- Improvement Managers,
- Operational Line Managers,

- Team Managers,
- Project Managers,
- Programme Managers,
- Change Managers,
- Finance Managers,
- IT Managers,
- HR Managers,
- All other functions directly involved in Six Sigma initiatives or ones wishing to become one.

Benefits

A participant who passes the exam receives the international Lean Six Sigma – IASSC Certified Black Belt™ certificate in electronic form. The certificate is valid for 3 years.
The Certified Six Sigma Black Belt:

- is a professional who can explain Six Sigma philosophies and principles, including supporting systems and tools.
- A Black Belt should demonstrate team leadership, understand team dynamics and assign team member roles and responsibilities.
- Black belts have a thorough understanding of all aspects of the DMAIC model in accordance with Six Sigma principles.
- They have basic knowledge of lean enterprise concepts, are able to identify non-value-added elements and activities and are able to use specific tools.

Training program

1. Define Phase
   - The Basics of Six Sigma
   - The Fundamentals of Six Sigma
   - Selecting Lean Six Sigma Projects
   - The Lean Enterprise
2. Measure Phase
   - Process Definition
   - Six Sigma Statistics
   - Measurement System Analysis
   - Process Capability
3. Analyze Phase
   - Patterns of Variation

- Inferential Statistics
- Hypothesis Testing
- Hypothesis Testing with Normal Data
- Hypothesis Testing with Non-Normal Data

4. Improve Phase
   - Simple Linear Regression
   - Multiple Regression Analysis
   - Designed Experiments
   - Full Factorial Experiments
   - Fractional Factorial Experiments
5. Control Phase
   - Lean Controls
   - Statistical Process Control (SPC)
   - Six Sigma Control Plans

Expected preparation of the participant

Knowledge about Lean and statistics are required. Basic project and finance knowledge is advised.

Training Includes

The training price includes:

- Accredited training materials
- Voucher for the online exam

Additional options:

- Take2 re-sit exam: 200 zł
  Attention: purchasing this option is only possible through Altkom Academy before the training.

The prices presented on the website apply to sales on the Polish market. For customers outside Poland, or in cases where the PeopleCert exam requires settlement under a different region, the final price may be adjusted in accordance with PeopleCert's applicable regional pricing policy. Please contact us to confirm the price and receive an offer tailored to your country/region: trainings@altkom.pl

Language

- Training: English
- Materials: English

- Exam: English

Examination method

The participants receive vouchers, which are valid for 6 months, for online exam.
Having completed the training, the participant receives an e-mail with guidelines how to register on the exam. The date is determined directly with PeopleCert, with the use of participant's account.
Online exam is conducted in the presence of proctor – a person from PeopleCert, who connects remotely with training participant's desktop and observes the course of exam via Internet camera.
The person who takes the exam is obliged to show the place where he is going to write the exam to proctor via Internet camera. Proctor checks if there are not any other persons and study aids in the room.

Duration

7 days / 49 hours

Examination description

Six Sigma Black Belt exam:

- Exam duration 240 minutes
- 150 multiple choice questions
- Required 70%, 105 correct answers
- Closed book
- Online version (with Proctor)