

Lean Six Sigma Black Belt eLearning (ILSSI)

98 uren zelfstudie / 6 maanden toegang / ILSSI examen voucher inbegrepen

Cursusoverzicht

Deze Lean Six Sigma Black Belt (LSSBB) training & certificeringcursus biedt studenten een diepgaand inzicht in zowel de complementaire domeinen van Lean als Six Sigma. Het behandelt de tools en technieken die nuttig zijn om het productieproces te verbeteren, afval te verminderen en defecten in het eindproduct te minimaliseren. Deze online LSSBB-cursus stelt deelnemers in staat om de opgedane kennis te gebruiken bij het leiden van verschillende kritische projecten in hun organisatie.

Deze eLearning cursus inclusief certificering omvat:

- 98 uur leren
- Een breed scala aan video's en oefeningen
- Elke cursus kan worden gedownload en er kunnen aantekeningen worden gemaakt
 - Bewaking van cursusvoortgang
 - Een discussieforum
- Een mobiele applicatie om te leren en studeren waar en wanneer je maar wilt
- **Het IALSSI Lean Six Sigma Black Belt examen**

OPGELET: deze eLearning en het examen zijn enkel beschikbaar in het Engels



COURSE & LEARNING OBJECTIVES

Upon completion of our Lean Six Sigma Black Belt training course, you will:

- Gain a comprehensive knowledge about the tools and techniques, advantages and challenges of the Six Sigma and Lean methodologies
- Have an in-depth knowledge on how to apply the DMAIC (Define, Measure, Analyze, Improve, and Control) principles
- Understand how Lean Six Sigma provides structure to continuous process and quality improvement
- Understand team dynamics and assign your teams members with roles and responsibilities
- Develop superior problem-solving skills that can be immediately applied in real world projects
- Be able to apply Lean concepts such as 5S, waste reduction, process mapping, value stream mapping, mistake proofing, etc. in your workplace
- Have the skills to define, present and manage improvement projects

COURSE CONTENT

98 hour study time

Introduction to Lean Six Sigma

- A brief history of Quality
- What is Quality (Definitions) and service or product
- Quality Gurus & their contribution to Quality
- Enterprise wide View
- Leadership
- Six Sigma Roles and Responsibilities
- Team Formation
- Team Facilitation
- Team Dynamics
- Time Management For Teams
- Team Decision making Tools
- Management and Planning Tools
- Team Performance Evaluation And Rewards
- Overview of DMAIC

Lean Six Sigma Methodology - Define

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- Important Stakeholders
- Impact On Stakeholders
- Critical To Requirements
- Benchmarking
- Business performance measures
- Financial measures
- VOC
- Kano's Customer Satisfaction Levels • Juran's Customer Needs
- Market Research
- CTQ Flowdown
- QFD
- Performance Metrics
- Project Charter
- Charter Negotiation
- Project management plan and Baselines • Project Tracking

Lean Six Sigma Methodology - Measure

- Processes, Process characteristics, process flow metrics, inputs and outputs
- Process maps and Flow chart
- SIPOC
- Data Type & Measurement scale
- Data Collection
- Sampling strategies
- Fishbone Diagram
- Relational Matrices or Prioritization Matrix • Basic Statistics
- Analytical Statistics
- GaugeR&R
- Process Capability Analysis

Lean Six Sigma Methodology - Analyze

- Correlation and Regression Analysis
- Testing of Hypothesis
- FMEA
- Gap Analysis
- The Five Whys
- Pareto Diagram
- Tree Diagram
- Non value added activities
- Cost of poor Quality (COPQ)

Lean Six Sigma Methodology - Improve

- DOE
- Poka-yoke
- 5S
- SMED
- Continuous Flow Manufacturing
- Kaizen
- Kanban
- Theory of constraints
- Risk analysis

Lean Six Sigma Methodology - Control

- Statistical Process Control
- Other Control Tools
- Maintain Controls
- Sustaining Improvements

DFSS : Design for Six Sigma

More on Lean

- A Value Stream Map
- Lean is Speed
- Total Supply Chain
- Lean Six Sigma Logistics

Case Study 1

- Part1
- Part2

Case Study 2

- Part1
- Part2

WHO SHOULD ATTEND?

This course is designed for employees and organizations requiring a standardized approach to problem solving for the purpose of continuous improvement. This would include team leaders, supervisors, associates, Quality Assurance Engineers, Project Managers, Software Professionals, Practitioners, Quality Assurance team members, Working Executives and Senior Management that will dedicate a small portion of their time applying the DMAIC and Kaizen tools to their natural work area.

This e-Learning is also suitable for those who want to lead improvement projects or those seeking to significantly improve business processes.

PRE-REQUISITES

Professionals wishing to take the Lean Six Sigma Black Belt (LSSBB) certification are recommended to be certified in Lean Six Sigma Green Belt (LSSGB). However, this is not essential as LSSGB principles and tools are also covered within the LSSBB course content.

EXAMINATION GUIDELINES

This elearning package includes your online proctored examination powered by the **International Lean Six Sigma Institute**. Upon successful completion of the exam, you will receive your Lean Six Sigma Black Belt Certificate.

The exam consists of 150 multiple-choice questions and each question only has one correct answer.

Time allowed: 3 1/2 hours

Questions: 150

Format: Online proctored examination