

Lean Six Sigma Green Belt Training

The soaring competitive pressure asks for a drastic optimization of business processes. To achieve this, production variance, failures, scrap rates, process lead times, and costs need to be reduced and the processes need to be realigned clearly customer-oriented. „Lean Six Sigma,“ as a synthesis of the methodologies „Six Sigma“ and „Lean Production“, is widely used in the producing industry very successfully since 2000. The objective of this training is the qualification as a Lean Six Sigma Green Belt and ends with a successfully passed exam. After the exam the participants may start with a Continuous Improvement (CI) project using the „Lean Six Sigma“ methods to become certified Green Belts.

Target Group

Professionals, experts and managers (e.g. engineers, researchers, business economists, technicians from part producing industrial companies as well as from the service sector like banks and insurance companies who want to contribute to the optimization of business or production processes.

Content

This training demonstrates the benefits of the CI method „Lean Six Sigma“, its power and application fields, and enables the participants to plan and conduct Lean Sigma projects self-dependently. The content is structured as follows:

Introduction

- What is Lean Management?
- What is Six Sigma? Relation to quality standards
- DMAIC Problem solving cycle
- Job distribution / roles within Lean Sigma projects

Define and Measure

- Identify customer requirements
- Describe and visualize processes (Value Stream Mapping)
- Define key metrics for measurement of the process performance
- Setup data acquisition and display data

Analyze, Improve, Control

- 7 types of wastes, Cause and effect analysis
- Process capability and statistic process control (SPC)
- Lean elements: 5S, Poka Yoke, TPM, SMED, 1-piece-flow, Kanban
- Basics of project and change management

Exam / Certification

For the certification an exam must be taken (multiple choice) and a CI-project using the DMAIC approach needs to be conducted. Both exam and project approval will be given by inspire c/o ETH Zurich.

Training elements

Presentation of the methodology, and its tools, acquisition of practical experience by means of simulation cases, examples, applications of selected tools, discussion of Lean Sigma projects and issues of participants.

Personal Benefit

The participants learn from experienced trainers the possibilities of Lean (Six) Sigma as well as the application of the Lean Sigma tools in projects.

Company Benefit

The participants receive the necessary knowledge to setup company processes customer-oriented and to optimize them e.g. by reducing the Process Lead Times (PLT) or by reducing the scrap and failure rates. The project coaching for the certification and the certification itself will be billed separately.

Trainers



Dr. Ing., MBA
Master Black Belt
Bruno Rüttimann



Dipl. Wirtschaftsinformatiker
Quality Manager EOQ
Henry A. Waldner

Certificate Training Lean Six Sigma Green Belt

Dates

Training: October 11 - 15, 2021
Exam: October 22, 2021

Duration

5 days + exam

Time

08:30 - 17:00 Uhr

Venue

ETH Zürich
Technoparkstrasse 1, PFA H24
CH-8005 Zürich

Number of participants

min. 6 / max. 12 participants

Preconditions / prior knowledge

No preconditions and no prior knowledge are required

Registration

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Prices:

CHF 4'450.- training
CHF 390.- exam

Please note our general conditions for further education courses:

www.inspire.ethz.ch/academy