

FESTO Academy

Industrial Management School



Training Program

Lean Six Sigma Yellow Belt

- Learn about the opportunities and implications of the Lean Six Sigma approach
- Understand the different potentials of Lean and Six Sigma methodologies and how to integrate them
- Acquire basic knowledge of the DMAIC methodology
- Understand the importance and power of data to support problem solving

DMAIC

DEFINE MEASURE ANALYZE IMPROVE CONTROL



area Operations &
Supply-Chain Management

The Yellow Belt knows the purpose, structure of the Lean Six Sigma method and is clear about critical issues related to the quality of input data to develop reliable reflections and improvements. A broad spread of Yellow-level expertise ensures sustainability, continuity and dissemination over time of the results obtained from Lean Six Sigma projects for both production and transactional processes.

Yellow Belt participates as a component of project teams and, with its experience and operational know-how, contributes to some of the work, identifying possible causes of defects, collecting process data, and identifying possible solutions.

By the end of the Training Program, participants will have learned how Lean Six Sigma projects can improve business results, how to apply the DMAIC methodology, what is the importance of data from a problem solving perspective, and what are the main Lean Six Sigma tools for qualitative and graphical data analysis.

The training approach is designed to provide the necessary knowledge for corporate operational resources to play an active role in Lean Six Sigma improvement projects, to understand the different potentials of the two approaches Lean and Six Sigma and how to integrate them to support continuous improvement in the company. It is also valid for evaluating Six Sigma methodology and testing its effectiveness in one's own business context.

The Training Program consists of two Modules:

- The presentation of the Six Sigma method and its tools
 - The Lean approach and the concept of Value
- Attendance at both Modules, with successful completion of the examination, enables the achievement of the "Lean Six Sigma Yellow Belt" certification.

Festo Academy issues internationally recognized Lean Six Sigma Certifications as per ISO 13053 and ISO 18404 standards

The Map

| MODULE 1 | MODULE 2 |
|-----------|-------------|
| Six Sigma | Lean Basics |
| 4 days | 2 days |

To whom it is addressed

- Managers and Function/Process Employees
- Quality managers
- Change manager

Goals

- Learn about the Lean Six Sigma methodology and its main tools
- Understand the difference and integrability of Lean and Six Sigma
- Understand the power of the DMAIC methodology for your company through the application in a business case of the basic tools of Six Sigma
- Understand the importance of data for process improvement
- Learning the concept of data stratification

Lean Six Sigma Yellow Belt

Features

- Trainers with experience in multinational Lean Six Sigma companies, with well-structured auditing processes
- Trainers with years of experience in process/product quality control
- Interactive teaching with simulations and exercises
- Case history

MODULE 1. Six Sigma

2 days

Goals

- Learn about the Lean Six Sigma methodology and its main tools
- Understand the power of the DMAIC methodology for your company through the application in a business case of the basic tools of Six Sigma
- Understand the importance of data for process improvement
- Learn the concept of data stratification

Contents

- Introduction to Six Sigma
- Why Six Sigma
- The Cost Of Poor Quality
- Introduction to the concept of variability
- The DMAIC model
- The Six Sigma organization: roles and responsibilities
- VOC plan and CTQ tree
- Process maps
- Ishikawa diagram and Pareto diagram
- The concept of stratification
- Control charts and control plans
- Introduction to Minitab® software
- Basic statistical analysis tools (graphical summary, boxplot, scatter plot, main effect plot, ...)

You will experience

- The power of DMAIC
- The importance of data collection
- Practical exercises on Minitab® software
- Exercise to be conducted in the company and handed over to the trainer (estimated 1 day of back office effort)

MODULE 2 Lean Basics

1 day

Goals

- Know the basic concepts of Lean thinking
- Discover value techniques to decompose, differentiate, and simplify complex systems

Contents

- Introduction to Lean Thinking
- Declining Value, the 3 demons, the 7 wastes (MUDA)
- VA/NVA operations and process-Value Stream Mapping - analyze and redesign the process
- Hunting for waste: how to recognize it and eliminate it

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