

Lean Six Sigma -Yellow Belt (duration 22.5 hours)

Description and objectives

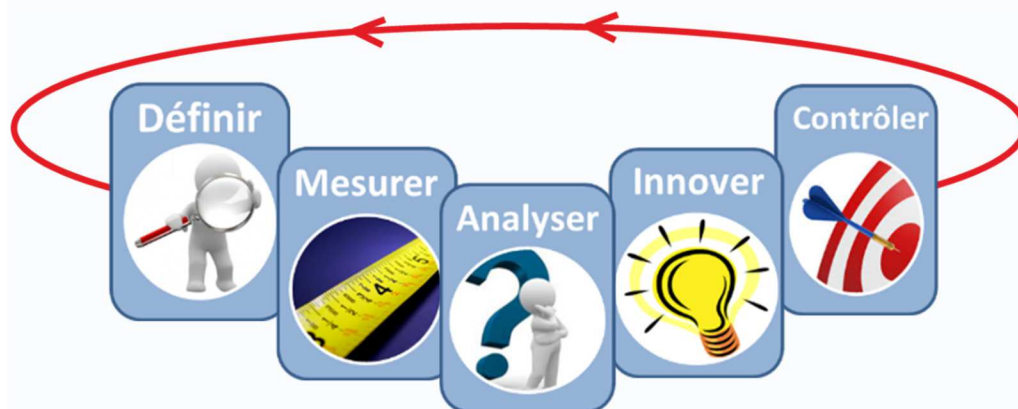
Context

Interest in Lean Six Sigma has been growing steadily over the past few years. But what is Lean Six Sigma? This course will introduce you to the fundamental concepts of the Lean Six Sigma philosophy and process and will enable you to understand and use the concepts, principles and tools of Lean Six Sigma and the DMAIC (Define, Measure, Analyze, Innovate, Control) methodology.

It will help you to successfully participate in your organization's Operational Excellence program. First, you will be able to see how a lack of quality can affect your organization.

The Lean Six Sigma - Yellow Belt training will provide you with a clear and simple framework for achieving customer satisfaction, reduced expenses, improved performance and a higher level of quality within your organization.

This course will prepare you for the American Society of Quality's Lean Six Sigma - Yellow Belt certification exam.



Objectives

At the end of the course, participants will be able to complete simple continuous improvement projects or assist improvement managers with complex projects.

Target audience

Anyone who needs to understand and wants to apply Lean Six Sigma concepts in their work environment and apply these concepts to the continuous improvement projects for which they will be responsible, to reduce non-value added activities, increase process performance while improving the customer's experience. The training will also prepare the participant to take an internationally recognized LSS Yellow Belt certification exam.

Content

The training consists of 9 modules.

The training manual used during the course is based on the "Book of Knowledge of the American Society of Society".

Module 1 - Deployment in the company

- Vision of the company
- Leadership

*Module 2 - **Organizational Process Management and measurement***

- Impact on stakeholders
- Project follow-up

*Module 3 - **Project Management***

- Project definition
- Change agent
- Management and planning tools

*Module 4 - **Team Management***

- Training
- Time management
- Decision-making tools
- Management and planning tools
- Performance evaluation and reward

*Module 5 - **Lean Six Sigma methodology -Defining***

- The voice of the customer
- Critical characteristics for satisfaction
- Project development and FIPEC-SIPOC
- Project control

Module 6 - Lean Six Sigma methodology
-Measure

- Data collection
- Descriptive statistics
- Tools:
 - brainstorming,
 - cause-and-effect diagram,
 - deployment of the quality function,
 - etc

Module 8 - Lean Six Sigma methodology -Innovate

- Determination and choice of solutions
- Improvement tools and methods
- Elimination of waste
- Cycle time reduction
- Cause and effect diagram, 5 Why's
- Kaizen method
- 5S organization method and visual controls
- Quality and foolproof (Poka-Yoke)
- Theory of constraints

Module 7 - Lean Six Sigma Methodology -Analysis

- Identification of factors to be improved
- Failure analysis
- Mapping of value added flows
- Natural and assignable variation
- Additional analysis methods
- Probability and statistics
- Parametric distribution overview
- Overview of hypothesis testing

Module 9 - Lean Six Sigma Methodology -Control

- Statistical process control
- Other control tools
- Implementation of the controls
- Maintain improvements

PROCEDURE

3 days, with a duration of 7 hours per day (8h30-17h00).

- 20 hours of training
- 1.5 hours for the exam
- 1.0 hours for in-class review of the exam