

Hands-on course , 4
day(s)
Ref : LLB

Participants

Professionals who wish to become familiar with the Lean Six Sigma® methodology and provide support for improvement projects as part of a team.

Pre-requisites

None.

Next sessions

Lean Six Sigma®, Yellow Belt, certification

OBJECTIVES

The role of the Yellow Belt is to lead an improvement project with visible results in terms of quality and customer satisfaction. This course will set you on the operational implementation of Lean Six Sigma® method and you will certify you as "Yellow Belt".

1) Introducing Six Sigma®

2) Six Sigma® fundamentals

3) Strategic projects selection

4) The different types of waste

5) "Measure" phase presentation

6) "Control" phase presentation

7) Preparation and Certification

1) Introducing Six Sigma®

- Lean Six Sigma®, objectives. Application areas. The different roles. Role of the Yellow Belt.
- DMAIC (Define, Measure, Analyze, Improve & Control) presentation.
- The "Define" phase . Relationship between variation and Sigma.
- Concepts and implementation of Six Sigma® models.

Echanges

The roles and responsibilities in the Six Sigma® organization.

2) Six Sigma® fundamentals

- The "Process Focus" description. Importance of VOC, VOB, VOE and CTQ. The low quality cost (COPQ).
- How to generate a process map. Six Sigma® basic metrics . FTY and RTY, DPU and DPMO ...

Workshop

Develop metrics.

3) Strategic projects selection

- How to use a structured approach to project selection.
- Defining the project in a clear project charter.
- How to perform an initial estimation of project benefits.

Case study

Estimated project profit.

4) The different types of waste

- Specific deliverables of the methodology.
- Design the project roadmap.
- How to apply the methodology throughout the project.

5) "Measure" phase presentation

- "Discovery Process" introduction. Global map of the process. Diagrams: Ishikawa, X-Y.
- Elements of an FMEA (Failure Mode Effect Analysis). Statistics used in Six Sigma®.
- Characteristics of a normal distribution. Normality test.
- Difference between a special cause and common cause of variation.
- Data graphs. MSA (Measurement System Analysis). Estimate the capacity of the process.
- How to describe the non-normal data impact analysis. Estimate the capacity of attribute data.

6) "Control" phase presentation

- Lean controls, tools description. Defects control, prevention methods.
- Reducing variations. SPC (Statistical Process Control). SPC chart elements. Objectives.
- Implementation methodology of a control board.
- Sampling frequency. Selection of monitoring graphs. Handling of related graphs and calculations.

Réflexion collective

How Lean tools help elimination and defect prevention and the achievement of project objectives ? How do they depend on each other ?

7) Preparation and Certification

- Reminders and instructions of the examiner.
- Examination : MCQ 50 questions.
- Duration : 90 minutes.