The purpose of this course is to introduce students to the lean manufacturing philosophy, its principles and tools. We help engineers to discover by doing, and this experience will allow them to experience, first-hand, the strength of the principles, the simplicity of the tools, and the dramatic of the results. Even more, after this course, most engineers will see manufacturing in a different way.

COURSE CONTENT

1. History and lean principles.

2. Value vs. waste.

3. Types of waste (MUDAS).

4. Operational Lean Tools.

5. Current state and future state VSM.

6. LEAN monitoring, planning and production control tools.

Duration
9 hours

E-learning platform
Tools and templates

Hands to work
Simulated learning

Certification
After successful course completion

At the end of the course you will be able to

- Understand the concept of value from the lean manufacturing point of view.

- Distinguish added value activities from Non-added value activities

- Identify the different types of waste recognized by the lean manufacturing philosophy.

- Understand how to apply the lean manufacturing tools to avoid waste and improve the process performance

- Build and interpret value stream maps (VSM). The actual VSM and the future VSM, and how they are used as a process improvement plan.

- How to control de production and reduce waste using Kanban

- Understand the concepts related to visual factory, 5s and other tools related to process control.