

Six Sigma Black Belt

General Objectives:

This course aims to acquire and train advanced problem solving concepts, enabling project and team leadership.

Specific Objectives:

At the end of the course the trainees will be able to:

- Know and understand what Six Sigma projects are;
- Know and understand the need to please customers;
- Know and understand the advantage of improving work processes;
- Know and understand what is variability in processes and defects;
- Know and understand the tools of Six Sigma.
- Know and understand the DMAIC method.

Recipients:

This course is aimed at all senior employees who are able to lead teams implementing advanced projects, and conduct training and mentoring of other Belts.

Duration:

45 Hours

Content Program:

Module I - Six Sigma Principles

- What is Lean methodology?;
- The Six Sigma tool;
- Supporting Pillars of Six Sigma projects;
- Pleasing Customers;
- Improving Processes;
- Teamwork.

Module II - VSM Method

- Purpose of VSM;
- Value Stream Mapping;
- Execution Process.

Module III - SMED Method

- Objective of SMED;
- Single Minute Exchange of Die;

Module IV - FMEA method

- Objective of FMEA;
- Failure Mode and Effect Analysis.

Module V - Sipoc Diagram

- Objective of the SIPOC Diagram;
- SIPOC Diagram;
- SIPOC(R) Diagram;
- Methodology.

Module VI - Jidoka

- Concept of Jidoka;
- Jidoka method.
- Module VII - DMAIC Method
- Purpose of DMAIC;
- DMAIC Method (Define / Measure / Analyze / Improve / Control).

Module VIII - Six Sigma Statistics

- Concept of Six Sigma Statistics;
- Six Sigma Statistics.