

PER-942 Lean 6 Sigma (LSS) - Black Belt / Black Belt (with evaluation)

Duration: 9 days

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TRAINING DESCRIPTION

The Black Belt training is the logical continuation of the journey of a Green Belt continuous improvement agent who, after leading several continuous improvement initiatives, wishes to be able to train and coach colleagues in Lean methods at the Green Belt and Yellow Belt within their organization and undertake more complex Lean Six Sigma improvement initiatives.

Our training, of 9 days, aims to develop resources who will be able to lead, coach, train, analyze and innovate in order to meet the objectives and this, in all types of organizations (services, transactional, governmental, manufacturing and others).

This training will allow participants to acquire the knowledge and demonstrate the skills necessary to be recognized as a Black Belt continuous improvement agent capable of leading, coaching, training, analyzing and innovating.

LEARNING OBJECTIVES

At the end of this training, the participant will be able to:

- Apply the philosophy of continuous improvement as well as all Lean and Six Sigma approaches and tools.
- Determine the best approach to use for projects.
- Guide your teams through this process according to the objectives and the nature of the projects to be carried out.
- Be aware of the importance of the enlightened use of technical, interpersonal and creative skills to ensure the success of projects.
- Train colleagues in Lean methods at Green Belt and Yellow Belt level.

METHODOLOGY

Several learning methods and training tools allowing to measure the progress and the integration of the concepts by the participants are used throughout the training.

- Presentation
- Demonstration

- Teamwork
- Individual work
- Case study
- Simulation
- Peer teaching
- Self-evaluation
- Practical projects

CONTENT

Block 1: Lean 6 Sigma (LSS) - Black Belt

- History of continuous improvement
- Role and responsibility of a black belt continuous improvement agent
- The key elements of Lean and Six Sigma
- The RDMAIC approach
- Lean trainers
 - Overview of lean tools
 - Develop lean training
 - Act as a lean trainer

Block 2: Lean 6 Sigma (LSS) - Black Belt

Measurement

- Planning data collection
- Analysis of the measurement system
- Statistical analysis of data using Excel and Sigma XL, a Dynamic statistical analysis **software**
- Descriptive statistics
- Inferential statistics
- Hypothesis tests
- Regressions
- ANOVA
- Other statistical tools
- Creativity techniques to create innovations.



Syllabus

Block 3: Lean 6 Sigma (LSS) - Black Belt

- In-depth lean tools

Lean and six sigma project management

- Human aspects
- Technical aspects
- Everyday continuous improvement
- Kata: Improvement kata and coaching Kata
- Daily performance management meetings
- Lean agile

TARGET AUDIENCE

For those from various background (service, transactional, government, manufacturing and other) who has already obtained a Green Belt certification.

OTHER INFORMATION

- A half-day review of the material and the completion of an open-book exam lasting 3 hours.
- Each participant will present their project to all of their colleagues and will be evaluated to ensure that they meet the requirements of a Lean Six Sigma Black Belt project.