



LEAN SIX SIGMA GREEN BELT

Context and Goals

To support performance improvement within an organization, people need to be trained in a systematic problem solving methodology and tools. Lean Six Sigma (LSS), a World class problem solving approach, is a valuable toolbox for improving processes.

Learning Objectives

- σ Understand and apply the LSS problem solving methodology and tools.
- σ Develop new skills to identify and eliminate waste and process variability.
- σ Apply the LSS methodology and tools to execute an improvement project that results in significant benefits for the organization.

Program Features

Each participant must realize a process improvement project and attend two weeks of training. The participant receives 1-on-1 coaching sessions throughout the duration of his/her project. To be a certified Green Belt by Différence, the participant must demonstrate that the LSS tools and methodology were successfully applied in his/her project and obtain at least 70% in a 2-hours exam .

Target Competencies

- σ Problem solving
- σ Project management
- σ Statistical thinking
- σ Lean Thinking

PROGRAM OVERVIEW

Duration: 2 weeks

Define

- σ Lean leadership
- σ Voice of the Customer and critical variables
- σ 5W2H and SIPOC
- σ Project Charter

Measure

- σ Data types & graphical data analysis
- σ Pareto analysis
- σ Capability analysis
- σ ImR control chart & change point analysis
- σ Process mapping & turtle diagram
- σ Sequence of events analysis
- σ Measurement validity assessment

Analyze

- σ Kaizen Blitz: 5P of efficient planning
- σ Brainstorming-Affinity-Fishbone
- σ 5 Whys, problem reversal, 10-4 classification
- σ T-test, ANOVA, power and sample size
- σ Prioritization matrix

Improve

- σ Design of buffers for variability
- σ 5S, SMED, Standard Work & Poka Yoke
- σ 6 Thinking Hats & Conflict resolution
- σ One factor trials
- σ Action plan

Control

- σ KPI evaluation
- σ Visual control & Routines
- σ Simplified Control Plan