

Lean Six Sigma (LSS) Green Belt Certification

What is Lean Six Sigma?

Lean Six Sigma is a cutting edge business management philosophy. In short term, Lean Six Sigma involves running high impact improvement projects. These projects increase labor productivities and business efficiencies and lower costs through breakthrough process improvements. In longer term, Lean Six Sigma creates a paradigm shift in the culture from reactionary fire fighting to proactive, data driven decision making and continues improvement.



Who are LSS Green Belts (GB)?

Six Sigma Green Belts are an essential part of the Six Sigma program. They actively take part in the improvement projects run by black belts and they also lead small improvement projects within their local areas and functions.

SUKAD and BMGI LSS Green Belt Certification

Lean Six Sigma (LSS) Green Belt training develops students into team leaders and problem-solvers who can regularly improve processes within their local areas and functions. Following the disciplined DMAIC (Define-Measure-Analyze-Improve-Control) roadmap, students learn to collect and analyze performance data, identify inefficiencies and problems, pinpoint the root causes of those problems and institute new protocols to greatly improve processes. They also obtain skills in leading teams through the process of change.

Another valuable aspect of this course is the inclusion of several creative-thinking modules that can be used when a team needs out-of-the-box solutions. These creative **techniques can dislodge a team's thinking when members are mired in their own assumptions and familiarity with their own processes.**

Most importantly, this course has a practical and applied focus. LSS Green Belt candidates receive formal certification from SUKAD and BMGI when they pass a final exam and complete a project in their workplace that removes waste, reduces defects, increases on-time delivery or otherwise achieves an important performance goal.

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Learning Objectives

Upon completion of this course, participants will be able to:

- ◆ Define, scope and execute DMAIC projects and Kaizen events
- ◆ Apply such Lean concepts as 5S, waste reduction, mistake proofing and value stream mapping
- ◆ Conduct basic statistical analyses to determine the relationship between key inputs and process outputs
- ◆ Apply DMAIC to solve business issues and transition projects from phase to phase
- ◆ Effectively manage team dynamics and understand how to work with leadership
- ◆ Close projects and hand control over to process owners and Present projects to instructors, peers and management.

Class room based Green Belt program

The classroom version of LSS Green Belt transfers needed knowledge and skills to students via interactive lecture, group exercises, process and tool simulations, individual exercises and the application of learning to a real improvement project in the workplace.

In the classroom, BMGI expert instructors are interesting and engaging, transferring knowledge from their extensive industry experience and thorough set of course content. Instructors also vigorously challenge students to stretch themselves, and support them in this regard, so they can extract the most value from the experience.

Course Length (Class Room)

10 days (two 5-day blocks over 2-month time frame)

72 hours of instruction

Prerequisites

Recommended reading

Minitab 16

Certification Requirements

This is a Lean Six Sigma certification program offered jointly by SUKAD and BMGI.

The certification requirements:

- ◆ Pass all quizzes and exam
- ◆ Complete one workplace improvement project and submit for review.

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Class Room Agenda

Week One

- ◆ Lean Six Sigma Overview
- ◆ Lean Six Sigma Roadmap and Tools
- ◆ Selecting the Right Methodology
- ◆ Project Definition and Scope
- ◆ Developing Project Charters & objectives
- ◆ Defining Current State
- ◆ Process Mapping
- ◆ The 8 Types of Waste
- ◆ Identification of Value
- ◆ Value Stream Mapping
- ◆ Introduction to Basic Statistics

- ◆ Delivery Simulation
- ◆ Data Collection
- ◆ Measurement System Analysis
- ◆ Capability Analysis
- ◆ Meeting Facilitation Skills
- ◆ Project Planning

Week Two

- ◆ Basic Process Analysis
- ◆ Graphical Data Analysis
- ◆ Statistical Data Analysis
- ◆ Failure Mode and Effects Analysis (FMEA)
- ◆ Generate and Evaluate Solutions
- ◆ Creative Thinking Techniques
- ◆ Pilot and Implement Solutions
- ◆ Delivery Simulation (round 3)
- ◆ Control Plans
- ◆ Mistake Proofing
- ◆ Statistical Process Control
- ◆ Transition and Project Closure
- ◆ **Identify X's (Fishbone and Cause & Effect Matrix)**

Other Learning Options for GB certification

[e-learning](#)

[e-learning with mentors](#)

[Blended Learning-Classroom with e-learning](#)

About SUKAD

SUKAD is a provider of Integrated Project and Process Management Services. SUKAD collaborates with BMGI and offer Lean and Six Sigma certifications jointly with BMGI.



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