

Lean Six Sigma Green Belt

Course Code

SSI058

Duration

5 Days

Format

Classroom | Classroom/Virtual |
Virtual

Overview

A Lean Six Sigma Green Belt is a Professional who has expertise in Lean principles, including supporting systems and tools. A Green Belt will demonstrate project team leadership ability and is at the stage of leading initiatives.

This program has been developed to bring you to a more advanced stage of Lean, with emphasis on Customer Focus, enhanced Problem Solving, Six Sigma & DMAIC, Supply chain tools as well as Team Management & Leadership. It is delivered through a blend of classroom & workshop training with a skilled practitioner and the deliverance of a Lean project.

The Program will be conducted over 5 full day sessions, each one focusing on key Lean Six Sigma learnings. The project will then be completed over a typical period of 12 weeks.

Objectives

At the conclusion of the program, learners will be confident in instigating, leading and delivering improvement projects. They will also be a valuable resource to their place of work mentoring other colleagues engaged in Yellow Belt projects. Learners will be capable of participating in larger projects as a Lean Six Sigma Green Belt Practitioner and will be suitable candidates for progression on to Black Belt Training Programs.

Content

Lean Philosophy & Principles of Continuous Improvement

The 8 Wastes:

- *Deep Dive*
- *Lean Tools & CI to eliminate*

Principles of Flow

Developing Customer Focus:

Who Should Attend

Green Belt Training is essential for anyone expected to lead improvement initiatives or work with other professionals leading improvement programs within an organisation. This course is designed with utilising Six Sigma to deliver a quality improvement project and is suitable to all levels including: Supervisors, Team Leaders, Managers, Quality System Managers, Operations Managers, Finance & Commercial Managers

Prerequisites

Prerequisites are not necessary but some familiarity with Lean Six Sigma (LSS) will help. Learners should have an idea for a project that they wish to use for the program.

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- *The Voice of the Customer*
- *Stakeholder Analysis*
- *Defining Customer & Stakeholder Value*
- *Customer relationships*

Understanding Processes:

- *Value Stream Mapping*
- *Takt Time (Understanding Customer Demand)*

Development of the Future State Map:

- *Facilitation & Brainstorming Techniques*
- *Analyzing Issues & Improving Flow*
- *Creating Cells, Leveling workload*
- *Creation of Kanbans*

Theory of Constraints (TOC)**Advanced Problem Solving:**

- *Looking for opportunities to improve Performance*
- *Problem Solving Roadmaps & the A3 Report*
- *PSP Charts*
- *Problem Solving Loop.*

Kaizen Events:

- *Develop a Kaizen Charter*
- *Developing, Prioritizing and Delivering Solutions*
- *Project Planner & RCA Output*
- *Prioritization & PICK Chart*
- *Action Planning/Milestone Planning*
- *Project Impact Metrics*

Lean tools & Methodologies:

- *5S and building structure*
- *SMED*
- *Supply Chain Tools*

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- *Visual Management Strategy*
- *Standard Work*
- *Poke Yoke (Mistake Proofing)*
- *Risk Management*
- *FMEA*
- *Control Plans*

Six Sigma – Define, Measure, Analyze, Implement & Control:

- *Define goals*
- *Measure performance*
- *VOC*
- *Probability & Statistics*
- *Data collection plan*
- *Capability Studies & Probability Distributions*
- *Hypothesis testing*
- *Design of Experiments*
- *Statistical Process Control*

Lean in the Office:

- *POUS*
- *Office Layout Improvement*
- *Ergonomic Design*

New Product Development

Process Design

Change Management

Roadmap to a Lean Enterprise

MCQ Exam