



LEAN SIX SIGMA - GREEN BELT CERTIFICATION

BY ELITE INDIGO



*Walk away with a list of key “quick wins” cases
you can start right away in the organization!*

 www.eliteindigo.com

 khenghuat.koay@gmail.com



100% HRDF Claimable

Lean Six Sigma - Green Belt Certification

• Program Overview

The Lean Six Sigma Green Belt Certification is a comprehensive 10-day program designed to equip professionals with the skills and knowledge needed to drive process improvements within their organizations. By integrating Lean principles, which focus on eliminating waste, with Six Sigma methodologies aimed at reducing variation, this certification ensures a structured approach to achieving operational excellence.

Participants will learn to apply DMAIC (Define, Measure, Analyze, Improve, and Control) methodology, utilize statistical tools, and lead improvement projects.

• Learning Objectives

By the end of the course, participants will be able to:

- Ability to use a structured approach to process improvement
- Ability to use DMAIC methodology - Define, Measure, Analyse, Implement & Control
- Skills to predict, prevent and control defects in a process
- Understanding of the elements of waste

• Who Should Attend

Engineers, Section Heads, Managers, Technicians, Senior Technicians & Supervisors with Yellow Belt qualification

• Methodology

The workshop is highly interactive and uses practical exercises, discussions, case studies, video presentation and games to reinforce understanding and assist and enhance the transfer of learning. The participants will learn how to proactively apply the new learning immediately on return to their own work environment. Participants are expected to have Minitab or JMP software to carry out statistical calculations. Every 2 days, there will be a presentation to the Management Team to present the participants project progress.



Lean Six Sigma - Green Belt Certification

• Certification

1. Certification requires candidates to complete a series of tests with a passing grade of 70% or higher in a multiple-choice exams after each module.
2. The exam is intended to validate the Candidate & proficiency with the tools and techniques.

• Course Outline

• Session A (5 Days)

Phase 1 – Project Selection (Day 1&2)

- i. Course Logistics (rules, program layout, expectations)
- ii. What is Six Sigma? (introductory overview)
- iii. Project Selection
- iv. Project Planning and Charters
- v. Internal Process Measures (KPI's) & baseline setting
- vi. Introduction to DMAIC project management
- vii. Introduction to Lean
 - a. The 7 wastes
 - b. Value add from customers perspective
 - c. Importance of Flow
 - d. The importance of 5S & standardization
 - e. Kanban systems
 - f. How to sustain Lean at the workplace?
 - g. Activity
- viii. VSM (Value Stream Mapping)
- ix. Assessment

Phase 2 – Define and Measure (Day 3&4&5)

- i. Introduction to Minitab
- ii. Basic Statistical Concepts
 - a. Sampling power & size
 - b. Mean & average
 - c. Standard deviation
 - d. Process capability analysis
 - e. Machine capability
 - f. Graphs
- iii. Control Charts
 - a. Variable charts
 - b. Attribute charts
- iv. The Define Phase
- v. Process Mapping
- vi. MSA (Measurement System Analysis)
 - a. GR&R (Gage repeatability & reproducibility)
 - b. Variable & attribute GR&R
- vii. Project presentation
- viii. Assessment



Lean Six Sigma - Green Belt Certification

• Course Outline

• Session B (5 Days)

Phase 3 - Analyze and Improve (Day 6&7)

- i. The Analyze Phase
- ii. Root Cause Problem Solving Tools
 - a. Fishbone
 - b. 5 Why's
 - c. FTA
 - d. Is/Is not analysis
 - e. DOE (Design of Experiments) with Minitab 17
- iii. Basic Experimental Design (Hypothesis Testing)
- iv. Linear Regression
- v. More DOE with Minitab 17
 - a. Steps to DOE
 - b. Noise factors
 - c. Randomization
 - d. Blocking
 - e. Repetition & replication
- vi. FMEA (Failure Mode Effect Analysis)
- vii. The Improve Phase
- viii. Assessment
- ix. Project presentation

Phase 4 - Control (Day 8&9)

- i. The Control Phase
- ii. Basic Cost Benefit Analysis
- iii. The Control Plan Strategy
- iv. Error proofing
- v. Visual management
- vi. Levels of Control
- vii. Review and Wrap-up
- viii. Certification Test
- ix. Certification Project

Phase 5 - Final Project Presentation (Day 10)

- i. Participants will present on their respective LSS Project



Lean Six Sigma - Green Belt Certification

• Course Content

DAY/ TIME	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5
1 Hour	Phase 1	Phase 1	Phase 2	Phase 2	Phase 2
1 Hour 30 Minutes	Phase 1	Phase 1	Phase 2	Phase 2	Phase 2
1 Hour 30 Minutes	Lunch	Lunch	Lunch	Lunch	Lunch
1 Hour 30 Minutes	Phase 1	Phase 1	Phase 2	Phase 2	Phase 2
1 Hour 30 Minutes	Phase 1	Phase 1	Phase 2	Phase 2	Phase 2
DAY/ TIME	DAY 6	DAY 7	DAY 8	DAY 9	DAY 10
1 Hour	Phase 3	Phase 3	Phase 4	Phase 4	Project Presentation
1 Hour 30 Minutes	Phase 3	Phase 3	Phase 4	Phase 4	Project Presentation
1 Hour 30 Minutes	Lunch	Lunch	Lunch	Lunch	Lunch
1 Hour 30 Minutes	Phase 3	Phase 3	Phase 4	Phase 4	Project Presentation
1 Hour 30 Minutes	Phase 3	Phase 3	Phase 4	Phase 4	Project Presentation



ABOUT ELITE INDIGO

We are dedicated to empowering businesses to achieve their full potential. With a team of seasoned professionals and a wealth of industry experience, we offer tailored consulting services to help organizations overcome challenges and seize opportunities.

WHY CHOOSE US?

98% Customer Satisfaction
based on Google Reviews



4.9 ★★★★★ 600 Google reviews

All our courses are 100% HRDF
claimable and no PO needed.

CONTACT US

For More 100% HRDF
Claimable Courses



SCAN ME

OUR COURSES



ARTIFICIAL INTELLIGENCE (AI)

Dive into the cutting-edge world of AI, exploring algorithms, data analysis and more.



TECHNICAL SKILL

Sharpen your technical prowess from programming, software and more.



SOFT SKILL

Develop essential interpersonal skills to excel in any professional setting.



LEADERSHIP SKILL

Unleash your leadership potential with our Leadership Skills course



TEAMBUILDING

Understand the dynamics of teamwork, communication, and synergy

