

Lean Six Sigma **Green Belt** Certification

Become a data-driven problem-solver

About the Program

Only Sunday (4 weeks)

➤ Guided first project

➤ Data-driven skills



Transferable Skills | Hands-on Mentoring | Breakthrough Results

Outcomes for Green Belts

- In-depth Lean Six Sigma knowledge
- Complete improvement toolbox
- Process mapping responsibility
- Core team & SME roles
- Identify non-value-added activities



Methodology -DMAIC

Our view of what sets us apart

Our focus on the learner

- Design learning catering to the unique needs of the participants
- In-depth persona analysis and understanding of the learner context

Our industry-oriented approach

- Bring in both functional and industry expertise
- Deliver relevant, targeted, high impact learning solutions

Our focus on impact

- We design robust, purposeful, and transformational learning journeys

Learn while practicing

- We design robust, purposeful, and transformational learning journeys

Lean Six Sigma Green Belt Certification

DMAIC in details

Course Content

Recognize & define

Deployment of Six sigma in organization, Organization hierarchy for Six Sigma, Project Hopper, Project Charter, Voice of Customer, Critical to Quality, Tree Diagram, Pareto, SIPOC

Measure

Type of Data, Measurement System Analysis – Variable & Attribute, Sampling, Base level Assessment, Normality tests, Capability analysis Cp, Cpk, Pp, Ppk, DPMO, DPO, DPU, Sigma Level

Analysis

Process Analysis, Problem Analysis, Control Charts, Test of Hypothesis, Chi-Square test, Regression Analysis, Process FMEA, Root cause identification

Improve

Solution Prioritization matrix, Solution Matrix, RICI – Chart, Before After tests, Solution Implementation

Control

Control Plan, Control Charts for Online Analysis, Mistake Proofing, Kaizen Philosophy, Overall Review, Evaluation Test

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 **10:00 AM – 1:00 PM Break 2:00 PM – 5:00 PM**



Virtual Class (Zoom)

JOIN NOW

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DAY 1

DEFINE PHASE

- Six Sigma and Lean Overview
- History of LSS
- Understanding of LSS
- DMAIC and DMADV
- Converting Voice of Customer (VOC) to Critical to Quality (CTQ) characteristics
- Project definition and Project Charter
- Process elements
- Benchmarking
- Process Inputs and Outputs & stakeholders
- High Level Process Mapping – SIPOC
- Detailed Process Mapping

DAY 2

MEASURE PHASE

- Understanding datatypes
- Process analysis and documentation
- Data Collection Plan and Sample Techniques
- Sampling and data collection method
- Measurement System Analysis (MSA), AAA and Gage R&R
- Process Capability DPMO, Cp, Cpk
- Introduction to Minitab
- Process capabilities studies
- Process performance & Process specifications
- Short term and long-term capabilities & sigma shift

DAY 3

ANALYSIS

- Learning and usage of tools like Cause & Effect Diagram, Pareto Charts
- Basic statistics, Mean, MEDIAN, mode, and Standard deviation
- Basic terms for variation and SD
- Principles of Lean, TIMWOOD, Graphical Analysis
- Identification and prioritization of critical X's
- Validate critical X 'S-HYPOTHESES Test for Mean and Proportions
- Correlation and Regression

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DAY 3

IMPROVE

- Identification of solution
- Lean tools
- Wastage elimination
- Kaizen and kaizen blitz V1.
- Cycle time and process time minimization
- Solution selection-NGT, N/3 Voting, Payoff Matrix
- Solutions with Lean Tools
- Error Proofing and FMEA
- Implementation Plan

DAY 4

CONTROL

- Implementing process and process controls
- SPC basis and details elaboration
- Control charts-Variable and Attribute charts
- Post Training Evaluation- Exam
- Acceptance strategy
- Project closure

Note: All Days, some case studies and real-life capstone projects will be discussed.

EXAMINATION / CERTIFICATION

Candidates are required to pass a **Question (MCQ)-based classroom examination** that measures their comprehension of the Lean Six Sigma Green Belt Body of Knowledge. The duration of the examination is 60 minutes, consisting of 50 multiple-choice questions (MCQs) offered in English.

**ALL CANDIDATES SCORING 70% OR ABOVE ARE AWARDED WITH A CERTIFIED
LEAN SIX SIGMA GREEN BELT**

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