

# Lean Six Sigma Green Belt



Six Sigma, in today's competitive business environment, is becoming more popular as it is a proven methodology that seeks to identify and remove the causes of defects and errors in organization's business operations including manufacturing and/or service operations including other support processes. Lean methodology evolve into operating philosophies to make only what you need, never produce a defect or pass a defect on, eliminate waste, and focus on cycle time reduction which results in cost reduction. If implemented successfully, each **Six Sigma project** carried out within an organization by following a defined sequence of steps can bring in tremendous savings & improvements. It uses a set of quality management methods, including statistical methods, and creates a special infrastructure of people within the organization ("Green Belts, Black Belts" etc.) who are experts in these methods. Six Sigma Training therefore is vital to create the infrastructure of people to drive the improvements. With objectives to understand Lean, Six Sigma & DMAIC methodology, tools & techniques, to understand the concepts such as VOC & VOP, to clearly understand how to develop strategy for Lean six sigma projects implementation and to understand roles & responsibilities in successful deployment of Lean six sigma projects.

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## Who should attend ?

- Individuals wishing to become part of companywide Lean Six Sigma practices and/or Improvement Projects
- Working Executives wishing to become Lean Six Sigma Experts. (e.g. QA Engineers, Project Managers, Team leaders, Software Professionals, Practitioners, Software QA team members and Senior Management)
- Individuals wishing to get certified as Green Belt in Lean Six Sigma
- Future managers
- Professionals involved in research, innovations or consulting in process improvement practices
- Management and Engineering Students desirous to be more resourceful and employable

## Course Contents

- Introduction to Six Sigma
- Development & History Six Sigma and Lean
- Key metrics of lean and Eight Wastes
- Define Phase : understanding six sigma, DMAIC, VOC to CTQ, COPQ, FTY, RTY, Project Charter, Pareto Analysis, Elements of Waste,
- Measure Phase : Introduction, Cause & Effect Analysis, SIPOC, FMEA, MSA, Lean Flow with Value and Non-value
- Analyze Phase : Overview, Minitab, Hypothesis testing
- Improve Phase : Overview, Correlation, Regression, DoE,
- Control Phase: Overview, Mistake Proofing, SPC, Basics of Lean VSM
- Practice Projects
- Written Examination
- End of course

## Certificate

Certificate of successful completion shall be issued to all the delegates who attend entire duration of the course & pass the written examination.

**Duration:** 4 Days