LEAN SIX SIGMA BLACK BELT



HIGH QUALITY TRAINING AND CERTIFICATION EXAM

WHAT IS LEAN SIX SIGMA?

Lean is a collection of techniques that helps in the reduction of time while delivering products. Six Sigma, on the other hand, is a disciplined approach to improve the quality and maintain consistency in delivery of products and services. Thus, Lean Six Sigma is an approach that is used to improve services on time while eliminating defects and leading the project towards perfection.

Lean Six Sigma has emerged as a popular business management strategy applied to projects globally. It helps a company in achieving their process excellence initiatives and delivering increased profits to an organization.

BENEFITS OF LEAN SIX SIGMA

- Gain sufficient understanding of Lean Six Sigma to be able to work effectively in improvement team.
- Learn to analyse and refine processes to improve efficiency and remove waste using Lean.
- Apply Six Sigma principles and techniques to reduce process variation and improve quality and consistency.
- Contribute to your continuing professional development.
- Add value for customers, employees and shareholders by minimising process variation and waste.
- Improve performance and reduce time scales for Lean Six Sigma projects.
- Train staff in a proven business improvement approach, equipping them with the tools to improve processes.
- Reduced cost, improved efficiency, better resource utilization, more profitable organization
- Certified people demonstrate knowledge of Six Sigma. They are always in demand

WHO SHOULD ATTEND?

- All the department and all the functions within organization can improve so it is suitable for everyone
- IT Support staff, Consultant
- All the team leads, Assistant Manager and above working in any department or function
- Business Managers
- Business Process Owners
- Service Providers
- System Integrators
- People want to gain knowledge on how to save cost, improve efficiency, identify defect and fix problems

PREREQUISITE

- None
- Anyone can attend



COURSE AGENDA — DURATION : 4 DAYS

- The “Lean Six Sigma Black Belt” training is based on international syllabus.

1

UNIT 1 : INTRODUCTION & OVERVIEW

Introductions, What is Lean Six Sigma, DMAIC overview

2

UNIT 2 : DEFINE

Introduction to Define, Project Charter, Team Charter, Stakeholder Management, Schedule & Deliverable, Process - SIPOC, Voice of the Costumers, Tollgate Review - Define

3

UNIT 3 : MEASURE

Developing Performance Indicators, Process Mapping, Value Stream Mapping, Cause and Effect Diagrams, Data Types, Data Collection, Data Patterns, Variation and Time Ordered Data, Time Plots, Basic Statistics and Sampling, Fundamentals of Statistics Sampling, Measurement System Analysis, Introduction to Minitab, Control charts, Process Capability, Tollgate Review – Measure

4

UNIT 4 : ANALYZE

Focus Problem Statement, Identify Root Causes, Root Cause Analysis Using Statistical tools, Minitab Applications, Correlation, Linear Regression, Hypothesis Testing, Normal Distribution, T-Test, Anova, Chi-Square Analysis, Tollgate Review – Analyze

5

UNIT 5 : IMPROVE

Generating Solutions, Select Solutions, Risk Management, Future State Value Stream Map, Design Optimized Layout, Pilot Solutions, Communicate Solutions, Implement Solutions, Tollgate Review – Improve

6

UNIT 6 : CONTROL

Standardization, Process Control Systems, Training, Monitoring, New Process Capability Evaluating Results, Benefits Realization, Story Board, Project Closure, Tollgate Review – Control, DMAIC Review

CERTIFICATION

- Certification exam is available Online or Paper based Mode
- Result of Paper based exam arrive between 1 to 5 days time depending on workload at EI
- E-Certificate is issued to candidate by EI at their email ID which is used to book exam