Online Lean Six Sigma Green Belt Training & Certification Program

Course Features

- ♣ Help understand the six sigma methodologies
- ♣ How to initiate six sigma in your organization
- ♣ Types of Projects
- ♣ Lean concepts included
- ♣ Learning of several six sigma tools including lean tools
- ♣ Explanation through example
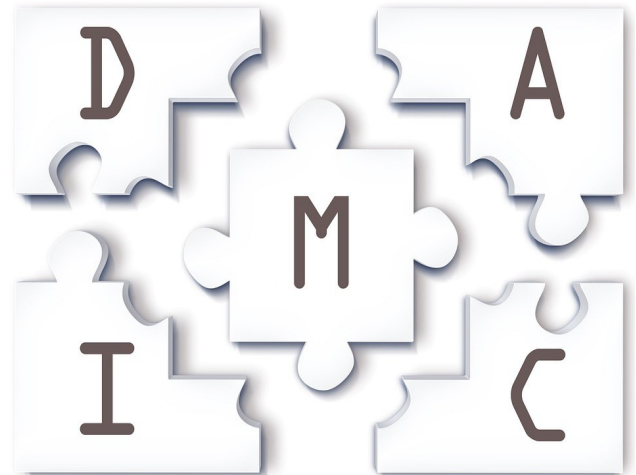- ♣ Exercises to practice

Course Objectives

Post this training participants will be able to :

- ♣ Reduce variation within their process, stabilize and improve capability
- ♣ Select high impact projects
- ♣ Decide on the approach of project execution
- ♣ Drive the project within organization
- ♣ Apply various tools and techniques
- ♣ Improve process and customer satisfaction

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

3rd to 6th June 2020, Time: 9.00am to 6.00pm

Course Contents

- ♣ **Day 1:**
- ♣ Introduction to six sigma
  - History of Six Sigma
  - Six Sigma as transformational strategy
  - Balanced score card
  - Types of projects
  - Introduction to DMAIC

- ♣ Introduction to lean Concepts
  - The lean concept
  - Lean principles
  - House of Lean
  - 5S and standardization
  - The 8 major wastes
  - Takt Time
  - Overall Equipment effectiveness
  - Value stream mapping
  - Linkage of Lean Concepts and DMAIC

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Course Contents (Continued)

♣ **Day 2:**
♦ <u>Define Phase</u>
- Voice of customer & Voice of Voice of process
- Project charter
- CTQ Drill Down Tree
- Team formation – ARMI tool
- SIPOC
- Estimation of Benefit
- Gantt Chart
- CTQ present state

♣ <u>Measure</u>
- Process Map
- Fundamental of statistics
- DPMO, DPU and sigma level
- Central limit theorem
- Process capability
- Process capability and performance
- Measurement System analysis
- Linearity, Bias, Stability
- Accuracy, Precision, Discrimination, GRR for variable data
- Introduction to Minitab

♣ **Day 3:**
♦ <u>Measurement & Analyze Phase</u>
- Effectiveness, Miss Rate, False Alarm for discrete data
- Cause and Effect Diagram
- 5 Why Analysis
- Correlation and Regression
- Test of Hypothesis
- Z test T test, 2t test
- Chi Square Test

♣ **Day 4:**
♦ <u>Improve & Control Phase</u>
- Brainstorming
- Action Planning
- Action effectiveness
- Horizontal Deployment
- Basic of FMEA
- Control Plan
- Human Error and Mistake Proofing
- Toll Gate Review
- Financial Benefit Calculation

Issue of Certificate

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

<u>Duration:</u> 9 Hours including 1 hour break all four days

<u>Registration Fee :</u> Rs. 12,000 + 18 % GST Per Participant

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