Achieving Performance Excellence

Six Sigma Greenbelt Program

TRAINING COURSE OUTLINE

An **ecci** Venture

apex GLOBAL
Learning for Excellence

Program Overview

Due to the increasing crisis visible in every industry, coupled with the need to offer the best quality at the least costs the need to move towards zero defects is no longer a choice but the only way forward— this can be done by using Six Sigma principles and achieving high levels of performance. With current time constraints and resource crunch, doing away with a full length program is difficult for organizations; so accelerated learning is the best path to follow.

The Six Sigma Green Belt operates in support of or under the supervision of a Six Sigma Black Belt, analyzes and solves quality problems and is involved in quality improvement projects.

This 5-day program on Six Sigma Green Belt Certification will help you understand and implement six sigma improvement methodologies for internal process improvement through independent projects and support your black belts in large cross-functional projects leading to Organizational success. It will help you to lead and execute process level improvement initiatives, drive quantified success, achieve improved customer satisfaction through appropriate measurement and help the Organization achieve increased productivity & profits.

Duration

5 – Days Program

Learning Objectives

At the end of this training, you should be able to

- Gain comprehensive knowledge of the Six Sigma methodology through a practical results-oriented approach
- Gain insights and come up with projects addressing specific problem areas and implement the concept on the chosen areas to identify and achieve improvement
- Appreciate and implement an organizational quality culture
- Require less time for turnaround, maintaining the operations of your workforce
- Reduce cost for talent, skills and leadership development
- Enhance the current level of experience and competency in your organization
- Provides participants with certification in a framework regarded as a global best practice giving them significant opportunities for career advancement.

Target Audience

- QA Professionals & Team Leaders
- Process Improvement team members
- Operational managers & supervisors
- Six Sigma team members
- Department heads

Program Structure and Outline

The Program is delivered using a combination of instructor-led lectures, case study and exercises on practical implementation of the concepts discussed within the training. The topics presented below define the areas of focus under the program.

Day 1

- *Program Overview*
- *Introduction to Six Sigma*
  - *Basic Concepts*
  - *Importance & Benefits*
- *DMAIC Methodology Overview*
- *Define Phase*
  - *Process Basics*
  - *Project Definition Basics & Concepts*
  - *Project & Team Charter*
  - *Communication protocol*
  - *Voice of the Customer*
    - *Translating customer needs to specific requirements*

Day 2

- *Day 1 Recap*
- *Measure Phase*
  - *Basics of process measurement*
  - *Data collection – Basics, Concepts & Tools*
  - *Data analysis*
    - *Statistics theory*
    - *Introduction to Minitab*
    - *Identifying Patterns – Time dependent & time independent*
    - *Process Analysis – Control & Capability*
    - *Sigma calculations*

- ▪ *Project Discussion (1 on 1 with trainer)*

Day 3

- *Day 2 Recap*
- *Analyze Phase*
  - ➥ *Data & Process Analysis*
    - ▪ *Data Segmentation & Stratification*
  - ➥ *Analysis Tools*
    - ▪ *Root cause identification*
    - ▪ *Problem Solving Basics*
    - ▪ *Applicability of techniques*
  - ➥ *Project team validation*
  - ➥ *Project Discussion (1 on 1 with trainer)*

Day 4

- *Day 3 Recap*
- *Improve Phase*
  - ➥ *Facilitation Skills and Decision Making Basics*
  - ➥ *Seeking the solutions*
    - ▪ *Brainstorming*
    - ▪ *Generating ideas and selecting solutions*
    - ▪ *FMEA*
    - ▪ *Mistake – Proofing*
    - ▪ *Design of Experiments*
  - ➥ *Solution implementation*
  - ➥ *Project Discussion (1 on 1 with trainer)*

Day 5

- *Day 4 Recap*
- *Control Phase*
  - ➥ *Process performance measurement & review*
  - ➥ *KPIs and measurement criteria*
  - ➥ *Monitoring and Control*
  - ➥ *Documentation & Communication*
    - ▪ *Developing Process control plan*
- *Short project presentation and lessons learned*

Examination