

Achieving Performance Excellence

Six Sigma Greenbelt Program

TRAINING COURSE OUTLINE



Program Overview

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 about six sigma and its applicability to operational areas
- Understand the DMAIC methodology, the various process improvement tools and techniques used at different stages and how to effectively use them
- Learn how to develop a clear project charter and contribute to the success of any process improvement initiative
- Learn how to review the project, analyze its performance, team dynamics, efficiency and outcomes.
- Contribute to Organizational improvement and profitability by helping improve product quality and customer satisfaction

Target Audience

- Managers
- Internal consultants
- Change Agents
- Project Managers
- Team Leaders and team members who will be involved in Six Sigma projects.

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