

Six Sigma Black Belt Training & Certification Program

Program Participants

Department Managers, Project Leaders, Senior officers and anyone who desires an understanding of Six Sigma Principles and skills. They are employees at all levels who serve as high performing team members on Black Belt Project teams. They need to be willing to use statistical tools to apply Six Sigma.

Program Overview

The Black Belt program provides participants the skills and knowledge they need for exceptional leadership of business improvement projects. The participants immediately apply concepts and tools taught in the training to their real-time improvement projects.

Upon completion, the participants will be able to learn to use:

- The DMAIC model for process improvement and
- Statistical tools and techniques to make fact based decisions.

The program focuses on the DMAIC Model for process improvement and the relevant usage statistical and graphical tools within that model.

The DMAIC model is a systematic method for analyzing and improving business processes. It consists of five phases.

- Define
- Measure
- Analyze
- Improve
- Control

Program Duration: 16 days spread over a period of 4 months (i.e. 4days x4 months).

Training Contents

Week 1 (Topics)

Six Sigma Overview

Define Opportunity - What is important?

- Validate business opportunity
- Document and analyze processes
- Define customer requirement.
- Build effective

Measure Performance - How are we doing?

- Determine what to measure
- Manage management
- Understanding basic concept of variation
- Evaluate measurement system
- Determine process performance.

Week 2 (Topics)

Analyze Opportunity - What is wrong?

- Identify potential root causes
- Implement comparative methods
- Conduct of Source of Variation (SOV) study
- Apply Failure Mode and Effects Analysis
- Complete correlation and regression.

Week 3 (Topics)

Improve Performance - What needs to be done?

- Conduct Design of Experiments.
- Generate improvement ideas.
- Evaluate and selection solutions.

Week 4 (Topics)

Improve Performance - What needs to be done?

- Apply response surface methodology.
- Present recommendations
- Implement changes

Control Performance - How do we guarantee performance?

- Develop and execute pilot plan.
- Plan and implement solution
- Implement process control
- Integrate processes
- Close project and recognize teams.

Next Step

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