

# Six Sigma Green 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 or as leaders on projects that do not require Black Belt level of analytical rigor.

## Program Overview

The Green Belt program provides participants with an overview of Six Sigma as well as key concepts associated with effective project teams. Green Belt receive a subset of the more comprehensive Black Belt curriculum.

Upon completion, the participants will be able to understand

- a structure problem-solving methodology for addressing business improvement projects.
- Intermediate level quality tools within that methodology and
- how to generate bottom line financial results.

The program focuses on the DMAIC Model for process improvement and the relevant intermediate - level 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:** 5 days

## Training Contents

### Day 1 (Topics)

#### **Six Sigma Overview**

#### **Six Sigma Foundations**

- Introduction to Six Sigma
- Six Sigma History
- Six Sigma Overview
- Effective team deployment
- Six Sigma DMAIC Overview

### Day 2 (Topics)

#### **Define Opportunity - What is important?**

- Validate business opportunity
- Define customer requirement.
- Develop Team charter
- Document and analyze processes
- Quick Wins.

### Day 3 (Topics)

#### **Measure Performance - How are we doing?**

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

#### **Analyze Opportunity**

- Identify potential root causes

### Day 4 (Topics)

#### **Analyze Opportunity**

- Implement comparative methods
- Conduct of Source of Variation (SOV) study
- Conduct correlation and regression study
- FMEA

#### **Improve Performance**

- Generate, select and pilot solutions
- Develop "to be" Process Map
- Introduction to improvement methods.

### Day 5 (Topics)

#### **Control Performance - How do we guarantee performance**

- Process Control System
- Implement Statistical Process Control (SPC)
- Project closure and team recognition

## Next Step

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