



QUALITY MASTERS GROUP

Six Sigma Green Belt Training

Course Objectives

- During this **two-week** course, participants will **learn** the various **tools** and techniques used throughout the five-phase **DMAIC** approach to Six Sigma. This course is a **condensed** version of the Black Belt training.
- The focus will be on problem solving tools that can be **applied to small projects**.
- **Note:** The Green Belt training does **not** go into depth in the area of statistics.

Who Should Attend?

- Employees working on minor Six Sigma projects or those participating in Six Sigma teams
- Those who want an initial introduction to Six Sigma thinking and techniques, e.g., those working in **transaction, service, customer relations, sales & marketing**, etc., where most emphasis may not be on statistics.

What Will I Learn?

- **Define** – participants will be taught tools to **identify** and/or validate their improvement project, illustrate their business processes, define customer requirements and prepare themselves to be an effective project team.
- **Measure** – participants will learn and practice employing tools to **determine critical measures** necessary to satisfy customer requirements and develop a measurement plan to document process performance. Participants will learn the basics of variation and measure process sigma

- **Analyze** – participants will learn how to **analyze** the performance **data** to further narrow down potential causes and refine the opportunity for improvement
- **Improve** – participants will learn how to create process solutions that **eliminate the root cause** of customer defects.
- **Control** – participants will learn how to execute against the plan by determining the approach to **ensure achievement** of the targeted results.

Agenda:

Week 1	Week2
Introduction to DMAIC Six Sigma	Review from Week 1
Group Tools and Opportunity Analysis	Project presentation
Project Charters	Regression
Basic Statistics and Minitab Use	Multivari Analysis
Quality tools for Data-mining	Introduction to DOE
Process Mapping	DOE - planning, design & analysis
C & E, 5-Whys and Fault Tree Analysis	Control Plan
Measurement System Analysis	Procedure Writing, Poka-yoke, 5S, VPC
Failure Mode & Effects Analysis	Stage-gate process
Introduction to SPC	Wrap-up
Capability Analysis	Final Quiz
Analyze Roadmap & data analysis	