



Working to Help You Win!

Green Belt Workshop Details

Description

This unique training program provides the skill sets you will need to apply Six Sigma continual improvement methods within your team. This course introduces Six Sigma tools and methods and shows various business applications in several exercises and case studies. Project assignments between sessions require you to apply what you learn. During this program, you will be required to identify, define, and formally present one Green Belt project. Upon successful mastery of the Green Belt course material the student will earn a certificate of successful completion of the Green Belt course. The Green Belt project should be completed within one year of completing training. **Duration - 2 weeks.**

Goal

You will learn the advanced problem solving skills including:

- ANOVA Analysis
- Design of Experiment
- Simple and Multiple Regression
- Monte Carlo Simulation
- Voice of Customer analysis
- Graphical Analysis and more!

You will learn how to use these tools to measure a process, validate measurement system, analyze the results, develop process improvements, and quantify the resulting savings.

Outline / Topics

Week One: Define & Measure

- Six Sigma Overview of DMAIC
- The Hidden Factory
- Project Scoping and Selection
- Process Mapping
- Affinity Diagrams
- Quality Function Deployment
- Identifying process variables
- Measurement Systems Analysis
- Failure Mode and Effect Analysis
- Ishikawa Diagrams
- Introduction to Minitab

Week Two: Analyze, Improve & Control

- Change Management
- Capability Analysis
- Verifying the Relation Between Xs
- Design of Experiment
- Statistical Tolerancing
- Implementing Solutions
- Statistical Control
- Mistake Proofing
- Financial Impact
- Final Project Review

Results

Upon successful completion of the training, participants will:

1. Be able to use the basic tools and methods of Six Sigma
2. Have applied various Six Sigma concepts/tools to their individual Six Sigma DMAIC Projects.