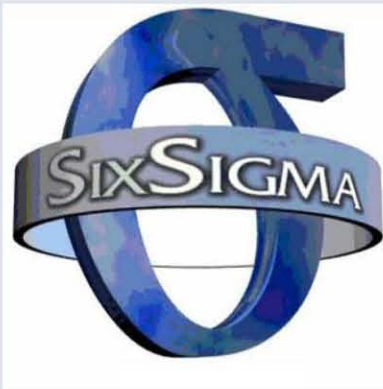


Six Sigma Green Belt



COURSE DESCRIPTION

Green Belts who are groomed in the six sigma methodology help deploy the six sigma approaches and techniques throughout your organization. They serve as candidates on the improvement teams formed to tackle improvement areas. They are employees at all levels and functions of your organization who are committed to business improvement using six sigma methodology.

COURSE OUTLINE

Six Sigma overview & How to Deploy

- What is Six Sigma
- Six Sigma application
- DPMO and Six Sigma level
- 3 Six Sigma vs. 6 sigma process
- Hidden factory
- Six Sigma vs. TQM
- Historical view of Six Sigma
- Explain the Master Back Belt (MBB), Black Belt (BB), Green Belt (GB) and Orange Belt (OB) roles in Six Sigma
- DMAIC overview

Define Phase

- Describe the purpose of the define phase and its key deliverables: CTQs, team charter, and process map
- Define and scope project
- Project characteristics / Project charter
- Use WBS / Pareto diagram
- Determine critical path using Activity network diagram
- Use Affinity group to Generate and categorize ideas
- Select important ideas using Prioritization matrix

Measure Phase

- Measure process baseline
- Tools to define process as flow charts, process map, and SIPOC
- Use different metrics to evaluate process
- Formulate a model for your project
- Determine flow down function using Box-plot and C&E diagram

- Differentiate between special and common causes of variation
- Evaluate process using SPC / Concept of Variation gage R&R study

Analyze Phase

- Analyze value stream map
- Analyze source of variation
- Determine process drivers
- Increase velocity of a process
- Investigate inter-dependence between two variables
- Interpret regression models / ANOVA analysis

Improve and Control Phase

- Estimate cost savings associated with proposed solutions
- Compare proposed solutions against performance criteria
- Financial analysis, Pareto diagram, Prioritization matrix and FEMA
- Evaluate best in class / Benchmarking
- Minimize impact of external source of variation
- Measure realized bottom-line impact

Certification

- The Arab Academy for Science and Technology and Productivity and Quality Institute (PQI)
- Quality America – USA,

Who Should Attend

- Managers and executives who actively engaged in identifying & eliminating wastes to improve the company's bottom-line financial results.
- Senior executive and management professionals working in high-impact areas of project management, operations, engineering, and information technology
- Employees of companies that have deployed Six Sigma, who work with Black Belts, or who lead their own improvement projects.

COURSE DURATION: 10 Days

TRAINING HOURS: 60 hrs

MINIMUM NO. OF TRAINEES: 15

LANGUAGE: English

