



### **THE JK Michaels SIX SIGMA GREEN BELT COURSE**

The program concentrates on the basic problem-solving, project management, and statistical tools needed for Green belts to work effectively on Six Sigma business improvement projects. It presents concepts and techniques in an easy-to-understand way that allows learners to apply immediately.

The focus of Six Sigma is fundamentally about quality, customer focus and cost, whereas Lean is about cost and speed. This course blends a number of Lean concepts and tools into the Six Sigma DMAIC model. The team leaders and team members are the brains and muscle behind the Lean Six Sigma programme it is critical that they are equipped with the appropriate skills and tools to enable them to deliver current and future improvements.

#### **Lean Six Sigma Green Belt Training Course Objectives**

At the end of the four day **Lean Six Sigma Green Belt training** course delegates will understand and be able to:

- Apply the principles of the Six Sigma DMAIC performance improvement model.
- Establish the “Voice of the Customer” in defining the required performance standard.
- Use a number of measurement approaches and tools to establish current performance.
- Use appropriately a number of basic analysis tools and techniques to establish the root cause of a problem.
- Understand key lean concepts and tools, when and how to apply them to drive improvements
- Recognise the difference in approach and techniques for incremental and redesign improvement strategies and know how to decide on the correct approach.
- Establish ongoing process controls and process governance structures

#### **Lean Six Sigma Green Belt Training Course Content**

This **Lean Six Sigma Green Belt course**, which has a case study running through the four days, covers:

## **CONTENT:**

### **Define**

- Understanding Variability
- Project Charter
- Stakeholder Analysis
- Communication Plan
- Identify and segment Key Customers
- Critical to Quality (CTQ) Requirements Verifying CTQs
- Hi-level Process map
- Process Vision
- Project Plan

### **Measure**

- Measurement Basics
- Measurement process and plan
- Selecting Measures
  - Measuring Value
  - Cost of Poor Quality
- Data definition and sources
- Gauge R&R
- Sampling
- Measuring yield and capability
- Implementing the measurement plan

### **Analyse**

- Data Analysis
  - Pareto charts
  - Frequency charts
  - Run charts
  - Variation
- Process Mapping and Analysis
  - Value Stream Analysis
  - Complexity
- Cause and Effect Analysis
- Verifying causes
  - Scatter diagrams
  - Design of Experiment

### **Improve**

- Process Vision
- Brain storming
- Lean principles
  - 5S's
  - Little's Law
  - Push versus Pull

- Visibility
- Setup reduction
- Theory of Constraints
- Evaluating solutions
  - Decision Analysis
  - Impact Effort Matrix
- Selecting solutions
- Developing solution options
- Business scenarios
- Pilot testing
- FMEA risk analysis
- Implementation planning
- Force field analysis

### **Control**

- Simple and appropriate documentation
- Mistake Proofing
- Statistical Control
  - Variation
  - Control Charts
  - I, X Bar and R Charts
- Response Charts
- Process Management
- Process Scorecards
- Project Close and Handover

### **Who Should Attend This Six Sigma Training Course ?**

- Managers, internal consultants, change agents, project managers, team leaders and team members who will be involved in Six Sigma projects.

### **Lean Six Sigma Green Belt Training Course Prerequisites**

- There are no pre-requisites for this course

**Duration:** 4 Days

**Training Fee:** N120,000 ,(exclusive of vat),international \$1500

**ASQ CSSGB EXAM FEE:**\$335