

Lean Six Sigma Managers Green Belt

Introduction

At the heart of Lean Six Sigma improvement and redesign activities are project teams. These teams will consist of people who want to use their knowledge and skills to improve the performance of processes and the business. Lean Six Sigma Green Belt training is focused on team members understanding and applying the **Define Measure Analyse Improve and Control** model which is the foundation of all Lean Six Sigma projects. The focus of Six Sigma is fundamentally about quality, customer focus and cost, where as Lean is about value, cost and speed. This course blends a number of Lean concepts and tools into the Six Sigma DMAIC model, it has a stronger focus on process rather data analysis. 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.

Objectives

At the end of the five day programme delegates will understand and be able to:

- Apply the principles of the Lean 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 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.



Variation

- Normal Distribution
- Z Function

Define

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

Measure

- Measurement Basics process & plan
- Selecting Measures
- Data definition and sources
- Sampling
- Measuring yields
- Measurement system quality
- Implementing the measurement plan
- Baseline Performance
- Process Capability

Analyse

- Data Analysis
 - ⇒ Pareto charts
 - ⇒ Frequency charts
 - ⇒ Run charts
 - ⇒ Variation
- Process Mapping and Analysis
- Value Analysis and MUDA
- Cause and Effect Analysis
- Verifying causes
 - ⇒ Scatter diagrams
 - ⇒ Process experiments

Improve

- Process Vision
- Brain storming
- Lean principles
- Evaluating solutions
- Selecting solutions
- Developing solution options
- Business scenarios
- Pilot testing
- FMEA risk analysis
- Mistake proofing
- Implementation planning
 - ⇒ Force field analysis

Control

- Simple/ appropriate documentation
- Statistical Process Control
 - ⇒ Variation
 - ⇒ Attribute Charts
 - ⇒ I, X Bar and R Charts
- Response Charts
- Process Management
- Project Close and Handover

Who should attend?

Managers, internal consultants, change agents, project managers, team leaders and team members who will be involved in leading Lean Six Sigma projects. Ideally delegates will have an awareness of Lean and Six Sigma; this is not a mandatory requirement as critical elements are covered at the beginning of the course. **Ideally delegates should have a project identified to undertake following completion of the training course.**

Associated courses

Lean Six Sigma Green Belt Conversion LSS106 to become a certified Green Belt
Lean Six Sigma Black Belt Conversion LSS107 to become a certified Black Belt

Further Information

Please contact Denis Mahoney at Business Transformation (Training and Coaching) on 07766 333294 or be email at denis.mahoney@business-transform.co.uk.