



CQE Training & Consultancy Plt (Reg No. : LLP 0003668 LGN)

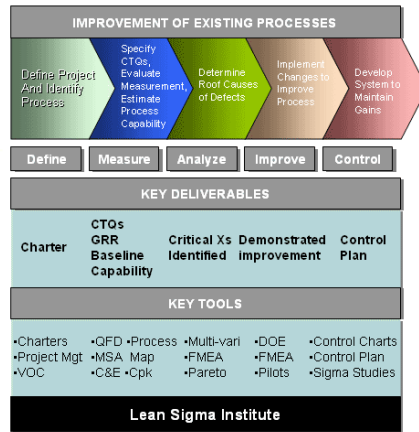
Registered Office : No. 46, Lorong Bintang, Taman Tasik Permai, 34000 Taiping, Perak. Malaysia.

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Introduction to 6σ Improvement Methodology (PUBLIC / IN-HOUSE TRAINING PROGRAMME)



Introduction

For Motorola, the originator of Six Sigma, the answer to the question “Why Six Sigma ?” was simple : Survival. Motorola came to Six Sigma because it was being consistently beaten in the competitive marketplace by foreign firms that were able to produce higher quality products at lower cost. Six Sigma is an extension of the Total Quality improvement process. It encompasses the core values and concepts of the Malcolm Baldrige Total Quality Awards such as Customer-Driven Quality, Strong Leadership, Continuous Improvement, Employee participation (Teamwork), Fast Response, Design Quality, Management by Facts, Partnerships and measurable Results. In short, the objective of 6 Sigma is improved profits through Best-In-Class product and process performance. 6 Sigma represent both a systematic improvement process and a quantified process improvement methodology.

Learning Outcomes/Objective

At the end of this training, participants will be able to:-

- ✓ Acquire conceptual overview of 6 Sigma evolution and revolution,
- ✓ Learn the Key Concepts of the 6 Sigma System - The Breakthrough Strategy employing DMAIC Methodology
- ✓ Know Resources and Infrastructure needed for 6 Sigma Journey,
- ✓ Gearing, adapting, implement and deploy 6 Sigma in their organization.
- ✓ Establish measuring performance based on 6 Sigma scale.

Also available as
in-house programme





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COURSE CONTENTS

Day 1

Executive Overview of 6 Sigma

- ✓ The 6 sigma general overview
- ✓ Introduction to 6 sigma ?
- ✓ 6 sigma success story
- ✓ 6 sigma breakthrough strategy
- ✓ 6 sigma breakthrough strategy challenges

Resources and Infrastructure Needed

- ✓ Commitment and involvement
- ✓ 6 sigma structure approach
- ✓ A systematic improvement process, and
- ✓ A quantified process improvement methodology (DMAIC Approach)

Gearing up and adapting to 6 Sigma

- ✓ The 6 sigma roadmap
- ✓ Changing companies measurement : A 6 sigma credo
- ✓ Creating the 6 sigma focus
- ✓ Preparing the 6 sigma Players - Champions, Master Black, Black and Green Belts.
- ✓ Training the organization for 6 sigma
- ✓ The key to successful improvement : selecting the right 6 sigma projects

Day 2

Implementing 6 Sigma (DMAIC Approach)

- ✓ Identifying Core Process and Key Customers (Roadmap Step 1) – Define Stage
- ✓ Defining Customer Requirements (Roadmap Step 2) – Define Stage
- ✓ Measuring Current Performance (Roadmap Step 3) – Measure Stage
- ✓ 6 Sigma Process Improvement (Roadmap Step 4A) – Analyze Stage
- ✓ 6 Sigma Process Design/Redesign (Roadmap Step 4B) – Improve Stage
- ✓ Expanding & Integrating the 6 Sigma System (Roadmap Step 5) – Control Stage

List of Advance 6 Sigma Tools (Quick Overview)

- ✓ Statistical Process Control (SPC)
- ✓ Design of Experiment (DOE)
- ✓ Failure Mode Effect Analysis (FMEA)
- ✓ Gage Repeatability & Reproducibility (GRR)
- ✓ Reliability Analysis
- ✓ Quality Function Deployment (QFD)
- ✓ Test of Statistical Significance

Who Should Attend

This course is designed for Management Executives, Managers, Officers, Engineers and Leaders who play a significant role in the 6 Sigma program implementation.

Duration

2 Days

Training Methodology

This workshop is highly participatory, incorporating lectures, discussion and practical exercises.





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