Lean Six Sigma YELLOW BELT

TRAINING COURSE OUTLINE

An ecci Venture
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Program Overview

Six Sigma yellow belts Training provides an introduction to process management and the basics tools of Six Sigma. This gives employee's a stronger understanding of processes. Enabling each individual to provide meaningful assistance in achieving the organization's overall objectives This Course is designed to provide a broad understanding of the Six Sigma improvement methodology, concepts and along with improvement methods including basic Statistical Process Control charts.

The DMAIC (D-Define, M-Measure, A-Analyze, I- Identify, C-Control) methodology is presented with case studies and examples drawn from business processes.

Duration

2 – Days Program

Learning Objectives

At the end of the training, participants are expected to:

- Understand the benefits and implications of Six Sigma program, and relate the concepts to the overall business mission and objective
- Apply the following basic process improvement tools within the Six Sigma DMAIC improvement model
  - *Thought Process Map*
  - *Pareto Chart*
  - *Trend Chart*
  - *Fishbone Diagram*
  - *Corrective Action Matrix*
  - *FMEA*
  - *Benchmarking*
  - *Brainstorming*
- Each Phase of the DMAIC methodology
- How to map a process and understand its inputs and outputs
- How to apply the Six Sigma mindset in his or her workplace on a daily basis

Target Audience

Anyone who desires to play an important role as part of a Six Sigma improvement team who needs the tools necessary to define, measure, analyze, improve, and control Six Sigma improvement projects

Program Structure and Outline

The Program is delivered using a combination of instructor-led lectures, case study and exercises on practical implementation of the concepts discussed within the training. The topics presented below define the areas of focus under the program.

Day 1

Introduction and Overview

- *Quality & Quality Concepts*
- *Quality Frameworks*
- *Lean and Six Sigma – The Linkages & Benefits*
- *Lean Six Sigma*
  - *What it is & Benefits / Applications*
  - *Approach & Methodology – DMAIC*
  - *Typical Organization*

Define

- *Project Selection Approach*
- *VoC & Process Definition*
- *Process Mapping – SIPOC*
- *Project Charter Creation*

Measure

- *Data Types and Measurement Modes / Techniques*
- *Sampling Analysis*
- *Basic Statistics*
- *Measurement System Analysis – Gage R & R*
  - *Accuracy & Predictability*
- *Process Capability – Introduction*

Day 2

Analyze

- *Analysis Types*
- *Qualitative Analysis*
  - *FMEA*
  - *Fishbone Diagram – Root Cause Analysis*
- *Quantitative Analysis*
  - *Pareto Chart*
  - *Trend Analysis (Control Charts)*

Improve

- *Decision Analysis*
- *Improvement Plan Creation*
  - *Brainstorming*
  - *Criteria Based Matrix*
  - *Mistake Proofing / Poka-Yoke*
  - *5S*

Control

- *Control Charts / SPC*
- *Control Plans*
  - *Components*
  - *Critical Success Factors*
  - *Sample*

Summary