

Yellow Belt Curriculum

Yellow Belt Training: Define Phase

1.1 Six Sigma Overview

- 1.1.1 What is Six Sigma
- 1.1.2 Six Sigma History
- 1.1.3 Six Sigma Approach $Y = f(x)$
- 1.1.4 Six Sigma Methodology
- 1.1.5 Roles & Responsibilities

1.2 The Fundamentals of Six Sigma

- 1.2.1 Defining a Process
- 1.2.2 VOC & CTQ's
- 1.2.3 Cost of Poor Quality (COPQ)
- 1.2.4 Pareto Analysis (80:20 rule)

1.3 Lean Six Sigma Projects

- 1.3.1 Six Sigma Metrics
- 1.3.2 Business Case & Charter
- 1.3.3 Project Team Selection

1.4 Lean Fundamentals

- 1.4.1 Lean & Six Sigma
- 1.4.2 History of Lean
- 1.4.3 The Seven Deadly Muda
- 1.4.4 Five-S (5S)

Yellow Belt Training: Measure Phase

2.1 Process Definition

- 2.1.1 Cause & Effect Diagrams
- 2.1.2 Process Mapping
- 2.1.3 X-Y Diagram
- 2.1.4 FMEA: Failure Modes & Effects Analysis

2.2 Six Sigma Statistics

- 2.2.1 Basic Statistics
- 2.2.2 Descriptive Statistics
- 2.2.3 Distributions & Normality
- 2.2.4 Graphical Analysis

2.3 Measurement System Analysis

- 2.3.1 Precision & Accuracy
- 2.3.2 Bias, Linearity & Stability
- 2.3.3 Gage R&R
- 2.3.4 Variable & Attribute MSA

2.4 Process Capability

- 2.4.1 Capability Analysis
- 2.4.2 Concept of Stability
- 2.4.3 Attribute & Discrete Capability
- 2.4.4 Monitoring Techniques

Yellow Belt Training: Control Phase

3.1 Lean Controls

3.1.1 Control Methods for 5S

3.1.2 Kanban

3.1.3 Poka-Yoke (Mistake Proofing)

3.2 Six Sigma Control Plans

3.2.1 Cost Benefit Analysis

3.2.2 Elements of the Control Plan

3.2.3 Elements of the Response Plan