GAQM®
Global Association for Quality Management

Certified Lean Six Sigma Yellow Belt (CLSSYB)™

Course Outline & Module Information

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What Modules are covered?

Module 1 – INTRODUCTION

1. Six Sigma: Concept and History
2. Six Sigma: A Breakthrough Improvement
3. Three Sigma vs. Six Sigma
4. Six Sigma – Roles and Responsibilities
5. How Six Sigma Works

Module 2 – DEFINE

1. Team Charter
2. Business Case
3. Problem Statement
4. Goal Statement
5. Project Scope
6. Milestone
7. Resource Plan
8. Team Charter Format

Module 3 – MEASURE

1. Tools for Measure
2. Process Mapping – Definition
3. Process Mapping – Need and Benefits
4. Process Map – Elements
5. High-level Process Map
6. Process/product Drill-down Tree
7. Data Collection Plan
8. Process Capability Analysis

Module 4 – BASIC STATISTICS

1. Definition – Statistics
2. Data Types – Discrete and Continuous
3. Data Types – Differences
4. Normal Curve
5. Distribution and its Types
6. Descriptive Statistics

Module 5 – ANALYZE

1. Tools for First Stage – Histogram
2. Tools for First Stage – Pareto Chart
3. Tools for First Stage – Stratification
4. Tools for Second Stage – Brainstorming
5. Tools for Second Stage – CED
6. Tools for Second Stage – Control Impact Matrix
7. Tools for Second Stage – Five Why Analysis

Module 6 – IMPROVE

1) Identify Vital Causes – Scatter Diagram

2) Identify Vital Causes – Correlation Coefficient

3) Identify Vital Causes – Regression Analysis

4) Propose Solutions – Pugh Matrix

Module 7 – CONTROL

Control Plan

Control Charts

Control Charts – Appropriate Selection

Control Chart – Types

Individual and Moving Range Charts

Attribute Control Charts

Module 8 – A Lean Glossary

Lean Process Improvement

1. Understanding Lean
2. The Toyota Production System
3. The Toyota Production System House
4. The Five Critical Improvement Concepts
5. Understanding Value with the Kano Model
6. Types of Waste
7. Creating a Lean Enterprise
8. Understanding Lean
9. The Plan, Do, Study, Act (PDSA) Cycle
10. Using the R-DMAIC-S Model
11. Lean Thinking Tools
12. Kaizen Events
13. Data Gathering and Mapping

What Modules covered in this E-Course?

1) INTRODUCTION

2) DEFINE

3) MEASURE

4) BASIC STATISTICS

5) ANALYZE

7) IMPROVE

8) CONTROL

9) A Lean Glossary

10) Lean Principles and Process Improvement

11) Recognize the advantages of Six Sigma

12) List the industries where it can be applied

13) Explain the use of the DMAIC methodology to achieve process excellence

14) Describe the use of statistics in applying the DMAIC methodology

15) Understanding Lean

16) The Toyota Production System

17) The Toyota Production System House

18) The Five Critical Improvement Concepts

19) Understanding Value with the Kano Model

20) Types of Waste

21) Creating a Lean Enterprise

22) Understanding Lean

23) The Plan, Do, Study, Act (PDSA) Cycle

24) Using the R-DMAIC-S Model

25) Lean Thinking Tools

26) Kaizen Events

27) Data Gathering and Mapping