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Six sigma and Organizational Goals

What Modules are covered?

2) Value of Six Sigma

1) What is Six Sigma

- 3) Organizational drivers and metrics
- 4) Organizational goals and Six Sigma projects
- Lean Principles in the organization

3) Value-added and non-value-added activities

Design for Six Sigma (DFSS) in the organization

1) Lean principles in the organization

- 4) Theory of constraints

2) Lean concepts and tools

1) Quality function deployment (QFD)

2) Design and process failure

4) Six Sigma - Define - I

3) Road maps for DFSS

- Introduction to the Define Phase 1) Process elements
- 3) Collect customer data

2) Identify customers

5) Translate customer requirements

4) Analyze customer data

Project Management Basics 1) Project charter and problem statement

3) Project metrics 4) Project planning tools

- 5) Project risk analysis
- 6) Project closure

2) Project scope

3) Organizational drivers and metrics

Six sigma and Organizational Goals

4) Organizational goals and Six Sigma projects

2) Building Charts

1) What is Six Sigma

2) Value of Six Sigma

- Other Tools and Techniques
- 1) Design of Experiments

4) Course Wrap Up

Process Analysis and Documentation

3) Ten Questions Regarding Six Sigma

2) Process Inputs and Outputs

3) Probability and Statistics

5) Central limit theorem

1) Process Modelling

- 4) Drawing valid statistical conclusions
- 6) Basic probability concepts
- **Collecting and Summarizing Data**

2) Data collection method 3) Techniques for assuring data accuracy and integrity

1) Types of data and measurement scales

- 4) Descriptive Statistics 5) Graphical methods

Statistical Process Control (SPC)

Design of Experiments

Multi-vari Studies

Implement and Validate Solution

Simple linear correlation and regression

Introduction to Improve and Control Phase

1) Understanding Lean 2) The Toyota Production System

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

13) Data Gathering and Mapping

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Control Plan **Lean Process Improvement**

3) The Toyota Production System House

5) Introduction to the Define Phase 6) Project Management Basics

7) Other Tools and Techniques

9) Collecting and Summarizing Data 10) Multi-vari Studies

11) Simple linear correlation and regression

8) Process Analysis and Documentation

What Modules covered in this E-Course?

1) Overview: Six Sigma and the Organization

4) Design for Six Sigma (DFSS) in the organization

2) Six sigma and Organizational Goals

3) Lean Principles in the organization

12) Introduction to Improve and Control Phase 13) Design of Experiments

14) Statistical Process Control (SPC)

15) Implement and Validate Solution 16) Control Plan

17) Understanding Lean

18) The Toyota Production System

19) The Toyota Production System House

20) The Five Critical Improvement Concepts

21) Understanding Value with the Kano Model

22) Types of Waste

24) Understanding Lean 25) The Plan, Do, Study, Act (PDSA) Cycle

23) Creating a Lean Enterprise

28) Kaizen Events

29) Data Gathering and Mapping

26) Using the R-DMAIC-S Model 27) Lean Thinking Tools

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12) Kaizen Events