

### Part 2: Book 2

















## **Chapter 2:**

- Total Quality Management (TQM)
  - Definition of Quality
  - · Cost of Quality
  - The Philosophy of TQM
  - Tools and Techniques of TQM
    - Deming Wheel (PDCA)
    - Benchmarking
      - Steps of Benchmarking
    - Quality Function Deployment

# **Chapter 3:**

- Six Sigma Principles
  - What is Six Sigma?
  - Examples of Six Sigma Success
  - Why should I give Six Sigma serious consideration?
  - Six Sigma Readiness
    - Six Sigma Management Commitments
  - What Are The Most Important Ingredients In The Six Sigma Methodology?
  - What Is The Typical Methodology Of Six Sigma?
  - What Exactly Is Six Sigma?
  - Overview of the DMAIC Model
    - When to use DMAIC
    - Implementation Options for DMAIC
    - Define
    - Measure

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- Analyze
- Improve
- Control

#### Kaizen DMAIC

- Characteristics of a Kaizen approach
- When to Use Kaizen
- How to conduct a Kaizen DMAIC
- Management/sponsor involvement in the Kaizen Event
- Tips on using a Kaizen DMAIC
- Project selection

## **Chapter 4:**

#### Lean Manufacturing (LM)

- What is Lean Manufacturing
- Key Principle of Lean Manufacturing
- History of Lean Manufacturing
- Key Implications of Lean Manufacturing
- > What Kinds Of Companies Benefit Most From Lean Manufacturing?

### **Lean Manufacturing Concepts**

- Value Creation and Waste
- Main Kinds of Waste

#### **Lean Manufacturing Tools**

- Value added and Non value added activities
- Value Stream Mapping
- JIT (Just In Time)
- Kanban tooling
- Cellular Manufacturing or Work Cells
- ➤ The Five S's
- One-Piece Flow
- Poka-Yoke (Error Proofing)
- Visual Management
- Value Stream Mapping
- Kaizen

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- Kanban
- Demand Management
- Heijunka
- Continuous Flow and Cell Design
- Changeover Reduction
- > Total Productive Maintenance (TPM)
- Single Minute Die Exchange (SMDE)
- Why Lean Manufacturing Is So Successful
- · Reconciling Lean with other systems
  - > Toyota Production System
  - Lean Six Sigma
  - Lean and ERP
  - ➤ Lean with ISO 9001:2000
- Implementing Lean
  - > Senior Management Involvement
  - > Start with a Partial Implementation of Lean
  - Start Small
  - Use an Expert
  - Develop a Plan

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