



## SIXSIGMAINDY

### Yellow Belt Course Curriculum

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## Course Title:

Six Sigma Yellow Belt: Transforming Processes and Results

16 Hours (3 Modules + Daily Review & Engagement Activities)

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## Course Overview

This course introduces participants to Lean Six Sigma fundamentals, tools, and mindset. It focuses on reducing variability, eliminating waste, and driving continuous improvement. Participants will learn structured problem-solving techniques, customer-focused strategies, and leadership skills to enhance process efficiency and quality.

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## Learning Objectives

By the end of this course, participants will be able to:

- Understand Lean Six Sigma principles and their application across industries.
  - Apply Six Sigma tools to analyze and improve processes.
  - Develop effective problem statements and identify root causes.
  - Recognize the importance of customer voice and quality culture.
  - Use DMAIC methodology for structured problem-solving.
  - Prioritize solutions and sustain improvements.
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## Course Syllabus

### Module 1: Six Sigma & Lean Fundamentals (5 Hours)

- **Topics:**
    - History of Six Sigma and Lean
    - DMAIC vs DMADV
    - Industry Examples
    - What is Six Sigma? (DMAIC Framework)
      - Calculating Six Sigma
      - Common Six Sigma Principles
    - Decision-Making With and Without Six Sigma
    - Sigma Level Is Not a Final Indicator
    - What is Lean? (Value vs. Waste, Banana Analogy)
    - Lean Principles & 8 Wastes (TIMWOODS)
  - **Activities:**
    - Puzzle Production Line Simulation
    - Banana Waste Identification Exercise
  - **Key Takeaways:**
    - Six Sigma = Reduce variation
    - Lean = Eliminate waste
    - Continuous improvement mindset
    - Decision-making with data
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### Module 2: Basic Six Sigma Concepts (5.5 Hours)

- **Topics:**
  - Six Sigma Tools & Metrics (FTY, RTY)
  - Pareto Principle (80/20 Rule)
  - Voice of the Customer (VoC) & Critical to Quality (CTQ)
  - Challenges in Lean Six Sigma Implementation
- **Activities:**
  - Scrabble Game for FTY & RTY
  - VoC to CTQ Tree Exercise
  - Lean vs. Six Sigma Sorting Challenge
- **Key Takeaways:**
  - Data-driven decision-making
  - Customer-centric improvements
  - Prioritizing efforts for maximum impact



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#### Module 3: Problems and Processes (5.5 Hours)

- **Topics:**
    - Crafting Effective Problem Statements
    - Six Sigma and Other Formal Quality or Process Improvement Programs
    - 5 Whys Root Cause Analysis
    - Understanding Processes ( $Y = f(X)$ )
    - SIPOC Overview
    - Process Ownership & Critical Success Factors
    - Cost of Poor Quality (COPQ)
    - Solution Prioritization Matrix
  - **Activities:**
    - Problem Statement Workshop
    - 5 Whys Application
    - Solution Ranking Exercise
    - DMAIC or A3 Worksheet
  - **Key Takeaways:**
    - Strong problem definition leads to better solutions
    - Root cause analysis prevents recurrence
    - Quality is critical for success
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#### Assessment & Certification

- Active participation in activities and discussions
  - Completion of exercises
  - Certificate of Completion: **Yellow Belt**
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#### Resources

- Course slides and handouts
- Support resources: [sixsigmaindy.org/yellow](https://www.sixsigmaindy.org/yellow)



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