

Course Outline

Lean Six Sigma Foundation: Yellow Belt

Course objective: For students to learn the fundamentals of Lean Six Sigma and be able to immediately work in a Lean environment. A graduate from this course is able to understand the basic expectations of a Lean organization, their role within it, and participate in structured improvements with a continuous improvement mindset.

Classroom hours: 8:00am – 4:00pm (8 classroom hours)

Upon completion

1) Knowledge, skills and abilities

- Understand the history and principles of Lean
- Understand Cost of Poor Quality
- Apply a critical thinking lens to their processes
- Identify the 8 Deadly Wastes
- Apply 5S to any workstation
- Recognize and interpret standard work and visual management methods
- Perform a robust root cause analysis including corrective and preventive action

2) Earned credential

- Lean Six Sigma Yellow Belt “Certificate of Training” for course completion

3) Provided resources

- Hard copy workbook
- Notepad, pen, and other course materials

Course Structure

- Module 1: Lean Introduction
 - Gemba & Respect for People
 - Lean Principles
 - Understanding Waste
 - Value Added vs. Non-Value Added
 - The Eight Deadly Wastes
 - DMAIC Introduction and A3
- Module 2: Define
 - Problem Statement
- Module 3: Measure
 - Process Mapping
- Module 4: Analyze
 - Root Cause Analysis Introduction
 - Brainstorming and Affinity Diagrams
 - 5 Why Analysis
- Module 5: Improve
 - 5S
- Module 6: Control
 - Standard Work