

Course Outline

Lean Six Sigma 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 and their role within it.

Course description:

Lean Introduction

- (Principles of Lean, Cost of Quality, 8 Wastes)
- This module introduces students to the very real but sometimes difficult to identify cost of poor quality, then covers the eight deadly wastes that appear in any organization and the basic principles of lean.

Root Cause Analysis

- (Fishbone diagram, Run chart, 5 Why analysis, Pareto chart, FMEA)
- Building upon the previous module, the class pivots from making sure things are going right to what happens when something goes wrong. Students will learn how to perform a robust root cause analysis in order to identify the cause(s) of a problem, correct the associated defects, and prevent them from recurring.

Foundational Lean Tools

- (5S, Standard Work, Visual Management)
- Building upon the previous modules, this module introduces the basic tools of Lean. 5S – a physical organizational strategy – combined with standard work and visual management allow an organization to have consistent, efficient, and effective work flow.

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

Course strategy: One day of in-class, hands on learning.

Upon completion

1) Knowledge, skills and abilities

Understand the history and principles of Lean
Understand Cost of Poor Quality
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

