

Course Outline

Lean Six Sigma Yellow Belt

Course Objective: For students to understand the foundations of Lean Six Sigma with ability to immediately be productive in a Lean environment.

Course Description: A project-based curriculum that leverages the use of simulations, case studies, and student interactions for the most effective learning experience. Student discussions of current projects encouraged. Seven classroom hours (in person or virtual)

Block #1: Start with why

- Cost of poor quality
- KPIs / Metrics
- Reactive vs. proactive efforts
- Change management / $Q \times A = I$ (role of facilitator)

Block #2: Lean Six Sigma foundations and background

- History / Toyota
- Kaizen / Gemba
- 8 deadly wastes
- 5 principles of Lean

Block #3: Problem solving and processes

- Define and understand processes
- 8 step problem solving model
- SIPOC
- Value stream map (see work as a process)

Block #4: Fundamental process improvement tools

- 5S / Standard Work / Visual Management
- Root cause analysis tools – fishbone and FMEA (if time allows)

Classroom hours: 8:00am – 4:00pm with one hour lunch (start and end times flexible)

Upon Completion

1) Knowledge, Skills and Abilities

- Possess a solid understanding of Lean Six Sigma and continuous improvement
- Ability to apply fundamental process improvement tools

2) Earned Credential

- Lean Six Sigma Yellow Belt Certificate

3) Provided Resources

- Course workbook (hard or soft copy depending on if in-person or virtual)