

Course Objectives/Course Outline
Spokane Community College

Course Title: Introduction to Lean Six Sigma

Prefix and Course Number: MGMT 244

Lean Six Sigma is the combination of both Lean and Six Sigma disciplines into one management philosophy aimed at promoting “business and operational excellence.” Lean Six Sigma is a powerful, proven method for making business processes more efficient (utilization of resources), and effective (a measure of quality – 3.4 DPMO).

Course Learning Outcomes:

By the end of this course, a student should be able to:

- Explain the scope and breadth of a Lean Six Sigma initiative
- Define and identify waste and develop a plan for waste reduction
- Identify variation and techniques to reduce waste
- Discuss the DMAIC team project model
- Summarize the infrastructure needed to support a Lean Six Sigma effort

The Lean Six sigma methodology views lean manufacturing-which addresses process flow and waste issues, and Six Sigma-with its focus on variation and design – as complementary disciplines.

Course Outline:

I. What is Lean Six Sigma

- A. Learn what Lean Six Sigma is.
- B. The basics of Lean Six Sigma.
- C. Combining Lean and Six Sigma for a comprehensive improvement strategy.

II. Improvement Methodologies

- A. Value stream mapping.
- B. Eliminating waste.
- C. Incorporating the 5S's.
- D. Starting the DMAIC Project Cycle.

III. Supporting Infrastructure

- A. Understanding the roles in Lean Six Sigma: the Leadership Team, Champions, Black Belts, Green Belts, Project Teams

IV. Application of Lean Six Sigma

- A. Lean Six Sigma in manufacturing, the office, order entry, warehousing and distribution, sales and R&D

Challenge (Course Test): Introduction to Lean Six Sigma Test