TADT 4867: Lean Principles and Practices

A. COURSE DESCRIPTION

Credits: 3
Lecture Hours/Week: 0
Lab Hours/Week: 0
OJT Hours/Week: *.*
Prerequisites: None
Corequisites: None
MnTC Goals: None

This course teaches the principles and practical application of Lean methods and tools as they would apply in various types of organizational value streams to continually reduce waste and support improvements to operational performance and value creation; organizationally inclusive for all stakeholders. Prerequisites: Junior status or consent of the instructor.

B. COURSE EFFECTIVE DATES: 08/22/2016 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Employee engagement strategies for inculcating Lean continuous improvement methodologies in support of achieving organizational performance goals and objectives.
2. The application of Plan-Do-Check-Act and A3 methodologies to support future state value stream improvements.
3. The study of organizational process value streams utilizing the current state value stream mapping process and analysis tools specific to identifying opportunities for future state improvement

D. LEARNING OUTCOMES (General)

1. demonstrate their understanding of the concept of the customer as it pertains both within and outside of the organization.
2. examine the application of lean principles and tools in practice.
3. analyze lean processing, e.g., single-piece flow versus mass or batch in various types of organizational value streams.
4. diagram and analyze various current state value streams.
5. create recommendations for process improvement and waste reduction for future state value streams aligned to customer demand.
6. relate how lean principles in practice can support performance improvements in an organization's Safety, Quality, Throughput, Cost, and Morale metrics.
7. demonstrate critical thinking skills.
8. demonstrate research skills.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus
G. SPECIAL INFORMATION

None noted