

# Dakota County Technical College

## SMGT 2056: Quality Improvement: Lean Manufacturing

### A. COURSE DESCRIPTION

Credits: 1

Lecture Hours/Week: 1

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course involves the relationship between quality and Lean Manufacturing. Learn how to determine value, metrics, and the constraints of Lean Manufacturing. Compare and contrast traditional manufacturing processes to Lean Manufacturing.

Prerequisite: None.

**B. COURSE EFFECTIVE DATES:** 01/07/2002 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. collect data
2. compare and contrast Lean Manufacturing with Traditional Manufacturing
3. conduct marker comparison
4. define value
5. discuss constraints in the process
6. discuss metrics
7. discuss mixed model sequencing
8. discuss preparation for processing
9. discuss the point of supply
10. discuss the workplace organization
11. examine quality problems
12. explain assembly processes
13. explain batch time and queue time
14. explain market changes and flexibility
15. list quality improvements
16. process data
17. respond to data results

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted