

# Dakota County Technical College

## SMGT 2058: Quality Improvement: Cellular Factory

### A. COURSE DESCRIPTION

Credits: 1

Lecture Hours/Week: 1

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course will provide an overview of the purpose of a cellular factory and its relationship with lean manufacturing and the visual factory.

Prerequisites: None

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

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. Compare and contrast Functional Manufacturing with the Cellular Factory.
2. Compare and contrast the computerized scheduling systems with the supply chain and lean manufacturing systems.
3. Define "Lean Manufacturing".
4. Define "The Cellular Factory".
5. Describe the evolution of systems that pull inventory into cellular manufacturing operations.
6. Describe the evolution of three inventory scheduling systems.
7. Describe what is meant by the term product layout.
8. Discuss the affects of accumulated inventory.
9. Discuss the application of the cellular factory to your work setting.
10. Discuss the history of manufacturing management.
11. Explain the common characteristics of functional manufacturing.
12. Explain the link between the visual factory and cellular factory.
13. Explain the term "Kaizen".
14. Explain the term "manufacturing Cells".
15. Explain what is a primary visual tool for inventory management.
16. Identify improvement areas.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted