

# Dakota County Technical College

## ETSA 2513: Pneumatics

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 1

Lab Hours/Week: 2

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course is an introductory course in pneumatics. This course is designed for students who have no previous experience working with pneumatic systems. The primary goals of this course are to help individuals acquire the knowledge and skills required to install, troubleshoot and maintain pneumatic systems.

**B. COURSE EFFECTIVE DATES:** 09/08/2010 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. assemble and disassemble pneumatic components
2. connect electro-pneumatic control devices
3. interpret pneumatic device specifications
4. perform routine maintenance of pneumatic actuators, control valves, compressors, and air supply equipment
5. plumb basic pneumatic circuits
6. read and draw schematics of pneumatic systems

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted