

# Dakota County Technical College

## HCEM 2280: Climate Control

### A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: 1

Lab Hours/Week: 1

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Students will be taught how to perform routine maintenance and troubleshooting procedures in order to identify and repair or replace faulty components within a climate controlled cab in heavy construction equipment. Air-conditioning theory will be discussed.

Prerequisites: HCEM1101, HCEM1130, and HCEM2135.

**B. COURSE EFFECTIVE DATES:** 06/03/2002 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. identify safety procedures
2. explain first aid procedures
3. demonstrate safety goggle usage
4. use service/maintenance manuals
5. identify basic A/C components and operation
6. test system
7. troubleshoot system

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted