

# Dakota County Technical College

## RRCC 1140: Mechanical Operations

### A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: 1

Lab Hours/Week: 1

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course covers mechanical operations that relate to conductor service. This is the second course in the conductor option of the railroad operations degree program. Upon successful completion of this course, the student should be able to describe the importance and application of freight care mechanical policies and practices to ensure safe railroad operations. 2.5 hrs. lecture/wk. Selective admission program - see a counselor about special requirements. Prerequisite: Admission to the DCTC's railroad conductor program and successful completion of RRCC1120, Intro to Conductor Service with a grade of "C" or better.

**B. COURSE EFFECTIVE DATES:** 08/22/2005 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. define what constitutes a hazardous material load and describe the procedure to insure there are
2. define what constitutes a top load and describe the procedure to insure there are no defects
3. identify and describe the types of locomotives and freight cars commonly found
4. identify appliance defects and list the correct handling procedures
5. identify defective journals and wheels and give examples of the methods to report and fix those defects
6. list all mechanical parts of an air brake system and describe their function and correct adjustment methods
7. list and describe the rules and regulations that the conductor must be familiar with

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted