

**Western Dakota Technical Institute  
800 Mickelson Drive  
Rapid City, SD 57703-4018**

**Master Syllabus**

**Course Number:** HVAC 135  
**Course Name:** Electrical Applications for HVAC II  
**Credits:** 3  
**Contact Hours:** 1 Lecture; 4 Lab

**Course Description:** This course continues the coverage of electrical applications used by heating, ventilating, and air-conditioning installers. Students learn a more thorough explanation of voltage and current, including basic measuring techniques and safety concerns.

**Prerequisites:** HVAC 121

**Textbooks:** <http://bookstore.wdt.edu/>

**Materials:** HVAC Program Tool Set and Calculator

**Student Learning Outcomes:**

- Apply advanced principles of voltage and current to HVAC components
- Differentiate the characteristics of loads and control devices in HVAC equipment
- Troubleshoot problems with electrical devices in air-conditioning, heat pump and heating systems
- Practice safety protocols throughout all aspects of the course curriculum
- Evaluate appropriate measuring techniques for HVAC repairs

**Assessment:** Students' analytical skills, teamwork techniques, employability, and technology skills will be assessed throughout this course.

**ADA Accommodations:** Students Rights to Assistance or Accommodations: Western Dakota Technical Institute (hereinafter WDT) does not discriminate on the basis of disability. If you have a disability as defined by federal or state law, including a temporary disability related to pregnancy and/or parenting as a result of a medical necessity due to childbirth, WDT will provide reasonable accommodations including but not limited to architectural access, aids and services necessary for effective communication, and modification of its policies and procedures. Students with a disability who are requesting an accommodation should contact your instructor and the Student Success Director who serves as the disability coordinator as early as possible in the semester.

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