

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

Master Syllabus

Course Number: HVAC 235
Course Name: Electrical Applications for HVAC/R IV
Credits: 3
Contact Hours: 1 lecture; 4 lab

Course Description: This course is a continuation of previous HVAC electrical applications with emphasis on commercial and special refrigeration electrical equipment and components. Students will be introduced to basic direct digital controls, pneumatics, and electronic control circuits used in HVAC/R systems.

Prerequisites: HVAC 225

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

Materials: Calculator and program tools

Student Learning Outcomes:

- Interpret diagnostic charts for commercial and special refrigeration applications
- Troubleshoot commercial and special refrigeration systems
- Make electrical repairs on commercial and special refrigeration systems
- Understand direct digital control and pneumatic and electronic circuits and controls found on HVAC/R systems

Assessment: Students' analytical skills, teamwork techniques, social values, 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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