

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

Master Syllabus

Course Number: HVAC 220
Course Name: HVAC/R I
Credits: 3
Contact Hours: 3 lecture

Course Description: This course is designed to introduce the fundamentals of low, medium, and high temperature commercial refrigeration. This includes the study of commercial freezers, walk-in boxes, and commercial refrigeration equipment.

Prerequisites: All first and second semester HVAC courses

Co-requisites: HVAC 221

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

Materials: Calculator and program tools

Student Learning Outcomes:

- Define high, medium, and low temperature refrigeration
- Identify different types of evaporators used in commercial refrigeration
- Explain special refrigeration components used to enhance the performance of a refrigeration system
- Describe typical operating procedures for refrigeration systems

Assessment: Students' analytical skills, life skills, communication 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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