

AIR CONDITIONING/REFRIGERATION MECHANIC

Codes and Ordinances (ACR 224)

Credit Hours: 2.0

Lecture Hours: 2.0

Lab Hours: 0.0

[DL Attendance/VA Statement](#)

[Textbook Information](#)

Course Description:

This course covers instruction on how to reference appropriate building codes and ordinances where they apply to installation of heating and air conditioning equipment.

Course Competencies:

Upon successful completion of this course, the student should be competent to perform the following. The first column indicates the ARI Curriculum Task number. Column 2 indicates whether the task is knowledge based (K) or a physical Task (T) to be completed in a lab.

Module 1: Code overview

23.A.01	K	Describe the reasons for codes.
23.A.04	K	Discuss the relationship between codes and manufacturers' installation instructions.
23.A.05.a	K	Identify pertinent standards published by the following organizations: AGA.
23.A.05.b	K	Identify pertinent standards published by the following organizations: AMCA.
23.A.05.c	K	Identify pertinent standards published by the following organizations: ANSI.
23.A.05.d	K	Identify pertinent standards published by the following organizations: ARI.
23.A.05.e	K	Identify pertinent standards published by the following organizations: ASHRAE.
23.A.05.f	K	Identify pertinent standards published by the following organizations: IEC.
23.A.05.g	K	Identify pertinent standards published by the following organizations: ISO.
23.A.05.h	K	Identify pertinent standards published by the following organizations: SMACNA.
23.A.05.i	K	Identify pertinent standards published by the following organizations: UL.

Module 2: International Fuel Gas and Mechanical Code

23.A.02.a	K	Describe the three model codes: Building Officials and Code Administrators (BOCA), National Mechanical Code.
23.A.02.b	K	Describe the three model codes: Southern Building Code Congress International (SBCCI), Standard Mechanical Code.
23.A.02.c	K	Describe the three model codes: International Conference of Building Officials (ICBO), Uniform Mechanical Code.

Module 3: State and Local Laws

23.A.03	K	Identify the codes and standards for the applicable area, locality, and state.
23.C.06	K	Explain state and local licensing requirements.

Course Requirements

Students are responsible for attaining competencies through completion of the following course requirements:

Attendance Policy

Students will be bound by the policies stated in the York Technical College Student Handbook. Students must attend 80% of the hours assigned the class for a semester to receive credit for the course. In case a student does miss a class, the student is responsible for obtaining the material that was covered during the absence. If a student is aware that a class will be missed, then the student should notify the instructor at the earliest possible date. Students with unexcused absences during tests will be allowed to make up tests at the discretion of the instructor. The student has the burden to be sure that some arrangement has been made with the instructor for taking a make-up test.

Academic Honesty

York Technical College adheres to the South Carolina Tech Student code, approved by the State Board for Technical and Comprehensive Education on March 13, 1974 (revised last April 25, 1984). Copies of this code are available in the Library and from Student Services. Any student involved in cheating or any other academic dishonesty will be given a grade of zero and will be subject to further disciplinary action. See the student handbook section "Student Life" subheading "Student Conduct" for further details.

Class Participation

Students will be expected to participate in class discussions, to demonstrate problem-solving techniques, to complete tests, homework, lab experiments, lab reports and other assigned work.

Evaluation Strategies/Grading

The grading scale will be as follows:

Grade Points

A	90-100
B	80-89
C	70-79
D	60-69
F	00-59

Evaluation Method

Tests may be written or oral and may contain questions that are true or false, short answer, multiple choice, fill in the blank and/or problems. Students should refer to the instructor for the number of tests to be given and the material to be covered on each test. Each test will be of equal weight unless otherwise indicated by the instructor. Lab grades will be based on the completion of the Course Competencies, team work, safety, class participation, and housekeeping.

Final grades will be determined as follows:

Module 1	Tests	10%
Module 2	Tests	60%
Module 3	Tests	30%
Total Grade		100%

Entry-Level Skills

Students should demonstrate hand/eye coordination, manual dexterity, and be able to work in an industrial environment.

Prerequisites

RDG 031 or equivalent

Co-Requisites

None