

HVAC

HVAC

Course Syllabus

Instructor: Dr. Abbott
Contact Information: abbottl@nw.halifax/k12.nc.us
252-586-4125
Room Number: 504
Course Title: HVAC/R
Course Number: IL55

Course Description: This course is designed for students to develop basic HVAC terminology and technical aspects of HVAC with emphasis on the development of introductory skills to include Intro to HVAC, Trade Mathematics, Basic Electricity, Intro to Heating, Intro to Cooling, Intro to Air Distribution Systems, Basic Copper and Plastic Piping Practices, Soldering and Brazing, and Basic Carbon Steel Piping Practices. English language arts and mathematics are reinforced. *Due to potentially hazardous processes and equipment a maximum enrollment of 20 is recommended.

Course Standards:

1.00	Understand Introduction to HVAC (NCCER Module 03101)	6%
2.00	Apply Trade Mathematics (NCCER Module 03102)	8%
3.00	Apply Basic Electricity (NCCER Module 03106)	11%
4.00	Understand Introduction to Heating (NCCER Module 03108)	13%
5.00	Understand Introduction to Cooling (NCCER Module 03107)	25%
6.00	Understand Air Distribution Systems (NCCER Module 03109)	13%

7.00 Apply Basic Copper and Plastic Piping Practices (NCCER Module 03103)	8%
8.00 Apply Soldering and Brazing (NCCER Module 03104)	8%
9.00 Apply Basic Carbon Steel Piping Practices (NCCER Module 03105)	8%

Class rules and procedures:

- Follow all school rules as noted in the school handbook.
- Follow all shop safety rules. (Provided Separately)
- Treat others with respect.
- Come to class on time, with all materials, and ready to learn.
- Make sure your work area is clean before leaving class.
- Cell Phones are not allowed in the classroom.
- Only see through book bags are allowed in classroom

CLASSROOM CONSEQUENCES

1. **Warning**
2. **Teacher Conference**
3. **Call Parent**
4. **Referral Matter to Principle/Vice Principle**

Course instructional methods: The teacher will be using oral instruction from the textbook , videos, and other teaching materials. The teacher will also be providing guiding hands on (shop) instruction.

Grading scale: Letter grades are assigned on the usual scale:

A (90 -100), B (80 – 89), C (70-79), D (60-69) F (below 60).

Two grades will be placed in grade book each week.

Testing: Students may take the end of module test 3 times to achieve a grade of 70 to pass the written examination or to improve their grade. The “hands on” performance evaluation requires a score of 100 and can be taken as many times as needed to achieve the perfect score.

Course materials and supplies:

- Text: HVAC Curriculum, *HVACR*, 6th Edition NCCER (provided).
- Well organized notebook, paper and pencil. It is suggested that students use a 3-ring binder with dividers so that notes and materials can be organized.
- Personal Protective Equipment (provided).
- Hand & Power Tools (provided).

Absences and late assignments: Due to the nature and pace of instruction of this class, it is strongly recommended that the students be in class on time and ready to learn. It is the students responsibility to make up all work missed due to being absent. The student will have 5 days upon returning to school to make up the work missed.

Progress reports: Progress reports will be sent home at the time designated by the school administration. If the parent would like to receive progress reports in addition to those, please feel free to contact me.