

NEW HORIZONS CAREER AND TECHNICAL EDUCATION CENTER
School Year 2023 - 2024
HVAC Class Syllabus - CTE Center –Woodside Lane Campus
Instructor:
Email:
Phone: 757 874-4444 Ext 5543

BOOK/E-BOOK: NCCER Pearson
HEATING, VENTILATING, & AIR CONDITIONING Level One 4th Ed.

OBJECTIVE: The HVAC program introduces students to the knowledge and technical skills of the HVAC industry, inclusive of the following:

- I. OSHA Safety Requirements
- II. EPA 608 Certification (Type I, Type II, Type III, Universal and 410 A)
- III. HEAT Assessment ESCO and VA CTE VERSO Requirements
- IV. Electrical Theory (Ampage, Resistance, Ohm Law, Circuit Parallel and Series, Line Voltage And Control Voltage, Single And Three Phase, And Others)
- V. Mechanical Theory- Basic Refrigerant Cycle (Components Operations, Terminology, Superheat, Sub Cool, States Of Matter; Liquid To Gas Vapor And Others)
- VI. Piping (Gas Line Black Iron, Soft Soldering, Silver Soldering, Flaring And Swaging Copper Pipe, Flex Pipe And Others)
- VII. Principles Of Air Flow And Associated Components Involved With Distribution. (Math Concepts And Formulas)
- VIII. Basic Hand Tools And Math (Electrical, Pipe Fitting, Mechanical And Others)

TEACHER POLICIES/CLASSROOM MANAGEMENT PLAN:

1. Students are responsible for bringing their laptop each day to complete module assignments.
2. Students who are not in the classroom when the tardy bell rings will be counted tardy. Three tardies are equivalent to one day's absence.
3. While in the classroom, students will be expected to act in a calm and orderly fashion in order to provide all students with an atmosphere for learning.
4. While working in the shop students must follow all rules in order to provide a safe working environment for themselves and others. THINK!!! Safety has no quitting time.

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RULES AND REGULATION/POLICIES AND PROCEDURES: Students will follow all rules and policies outlined in the program handbook by New Horizons Regional Education Centers.

LATE WORK

Students will be allowed to make up any missed assignments, quizzes, tests and /or training. This must be done within one week after the missed assignment. Late assignments may receive a reduction of 2 pts per day.

GRADING

Students grade will be formatted as such 34% Employability, 33% Related Instruction, and 33% Competencies. The grading scale is A 90-100; B 80-89; C 70-69; D 60-69.