**8504 - HVAC (Level I) Class Syllabus for School Year 2024-2025**

New Horizons Career and Technical Education Center

Woodside Lane Campus

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**E-BOOKS**

NCCER, Pearson, 6th Ed.

*HVACR, Level 1*

**LEVEL 1 OBJECTIVE**

This HVACR curriculum prepares learners for a career as skilled heating, air conditioning, and refrigeration mechanics and installers. It covers the concepts technicians need to safely install, maintain, and troubleshoot HVACR systems. The curriculum also covers needed basic knowledge of sheet metal, welding, and pipefitting.

This curriculum meets HVAC Excellence accreditation standards to prepare trainees to sit for HVAC Excellence certification tests and complies with the U.S. Department of Labor’s standards for apprenticeship programs.

1. Introduction to HVACR

2. Trade Mathematics

3. Basic Electricity

4. Introduction to Heating

5. Introduction to Cooling

6. Air Distribution Systems

7. Basic Copper and Plastic Piping Practices

8. Soldering and Brazing

9. Basic Carbon Steel Piping Practices

**CREDENTIALS**

1. OSHA Safety Requirements (Required)
2. NCCER - CORE
3. NCCER - HVACR Level 1

2. EPA 608 Certification (Core, Type I, Type II, Type III, or Universal)

**TEACHER POLICIES/CLASSROOM MANAGEMENT PLAN**

1. Students must bring their laptops daily to complete module assignments.

2. Students not in the classroom when the bell rings will be counted as tardy. Three unexcused tardies are equivalent to one day's absence.

3. While in the classroom, students will be expected to act calmly and orderly to provide all students with an atmosphere for learning.

4. While working in the shop, students must follow all rules to provide a safe working environment for themselves and others. SAFETY NEVER SLEEPS.

5. Additional rules, procedures, required materials, class fees, and information will be given for students and parents to sign when class starts.

**RULES AND REGULATIONS/POLICIES AND PROCEDURES**

Students will follow all rules and policies outlined in the *Student Rights &*

*Responsibilities Handbook* by New Horizons Regional Education Centers.

**LATE WORK**

Students can make up any missed assignments, quizzes, tests, and training. This must be done within three days after the missed assignment (with five points deducted per day for lateness). If students are not present on a Workforce Wednesday Assignment/Quiz, they will have three days to complete it, and it should be completed at home (there is no late work except for Workforce Wednesday Assignments/Quizzes).

**GRADING**

Student grades will be formatted as such:

34% - Employability

33% - Related Instruction

33% - Competencies

The grading scale is:

A = 90-100

B = 80-89

C = 70-79

D = 60-69