

HVAC U – HVAC Technician Program HEP ENERGY AUDITOR TRAINING & CERTIFICATION and Building Analysis

- I. Office Location: 18311 W 10 W Mile Rd STE 103, Southfield MI 48075
- II. Office Phone: 248-450-3105
- III. Email Address: info@hvatrain.com
- IV. Contact Hours: 45 Hours
- V. Prerequisite: None
- VI. Co-requisites: None
- VII. Grading Scale: A to E

Catalog Course Description:

The purpose of this course is to provide participants with the skills, knowledge, and training you need to successfully become an Energy Auditor in the DOE National Weatherization Program. The students will enjoy a combination of classroom and in person learning as we reinforce the concepts of the building science industry.

Goals, Topics, and Objectives

Goal Statement

This course provides students with the capability to meet or exceed the requirements for successful testing of the HEP Energy Auditor Certification.

Core Course Topics and Objectives

Upon successful completion of this course, students should be able to perform the following:

1. Understand the HEP Energy Auditor Program
2. Understand the Energy Auditor process
3. Conduct a site audit using the appropriate, forms, procedures, and tools
4. Identify opportunities and countermeasures for the home and create work orders.
5. Calculate parameters, such as ROI, simple payback, etc.

Course Outline:

1. Introduction to Weatherization
2. Tools of the Trade
3. Utility Bills
4. Building Assessment
5. Building Shell Principles
6. Combustion Appliances
7. IAQ
8. Moisture Control
9. Ventilation
10. HVAC Systems
11. Thermography
12. Heat Loss / Heat Gain Calculations

13. Software
14. Creating work orders and implanting strategies

Lab Activities:

To maximize the effectiveness of personal learning, there will be in person learning as well as labs activities.

Course Assessment:**Methods for measuring achievement of objectives:**

1. Quizzes – Quizzes will be given throughout the semester. Quiz scores represent 20% of the course grade. Quizzes can be issues online or in class, instructor's discretion.
2. Laboratory Activities – Lab activities vary from in person labs or job shadowing. These will make up 20% of the course grade. Students must attend the sessions as assigned to receive credit.
3. Homework – Homework will consist of assignments based on the textbook's chapters. Homework will also consist of any materials that are provided by the instructor. These assignments will make up 20% if the course grade.
4. Exams – A written midterm and final exam will be given and totally they will represent the 20% of the course grade.
5. Attendance – Attendance will account for 20% of the final grade. Absence from class is part of not completing the required work, so each absence will result in a deduction of the final grade. This will only be explained once; if you cannot make it to class you make early arrangements with the instructor or call and leave a message on his phone or e-mail. All assigned work will be completed by the end of the semester, or a grade of Incomplete will be given.

Grading Scale:

1. 100 – 90% = A
2. 89 – 80% = B
3. 79 – 70% = C
4. 69- 63% = D
5. 63 – Below - F

Class Textbook:

Materials will be provided.

The textbook will be provided**Attendance Policy:**

Maximum allowable number of absences is 3. The 4th class means automatic failure, but the class can still be attended. Tardiness and leaving early added up to 60 minutes will be counted as an absence.

Attire:

Appropriate clothing should be always worn. When showing a specific contractor please consult with them for their specific requirements.

Cheating and Plagiarism:

You are the student so; the work should be your own. You are not cheating anyone other than yourself and your work performance in industry, will be reflected by your what you learn in the classes.

Cell Phone Usage:

Please refrain from cell phone use in class. If cell phone usage is abused you will be asked to leave.

Intoxication/Drugs:

HVAC U, LLC has a zero-tolerance policy regarding intoxication or drugs. If evidence of either is recognized, campus security will be requested to remove you from the premises and might involve associated required tests by law enforcement agencies. Do not come to campus or class because of the possibility of endangerment to other students and staff. Additionally, the contractors in this program will require you to be drug tested prior to job showing.

ADA:

HVAC U, LLC will make necessary specific accommodations, to those students of record at HVAC U, LLC with identified ADA needs.

Dropping the class:

We provide 100% refund after the 1st week of class. After the 1st initial week, no refunds will be given. Credit for class may be granted on a case-by-case basis. Please contact the training director for specific details.

Tuition Cost:

\$2279.00