

**Environmental Systems Tech - Advanced HVACR Technician
Program Assessment Plan**

Last Revised 12/22/2009

Catalog Description

This program leads to an associate in applied science degree with specialization in Environmental Systems Technology. It is designated as an extended degree because the student must complete a minimum of 73 or more required credit hours. Program graduates are encouraged to transfer to a four-year college or university to complete their education in Engineering Technology or Energy Management. However, program graduates may qualify for occupations and careers in heating, ventilating and air conditioning such as systems designers, technicians, estimators, sales engineers and manufacturers' representatives.

Environmental Systems Tech - Advanced HVACR Technician Program Assessment Plan

Learning Outcome

Students will master written communications through field and service environmental audit experiences, grading rubric used in audit.

Benchmark	Assessment Method	Assessment Date
272.1A 80% of the students in AET 2400 that complete the course will attain 80% (grade of B) or better on their walk through energy audit as defined by the rubric in the syllabus.	Grading rubric.	6/1/2010

Environmental Systems Tech - Advanced HVACR Technician Program Assessment Plan

Learning Outcome

Students will demonstrate troubleshooting skills on HVACR equipment trainers.

Benchmark	Assessment Method	Assessment Date
272.2A 90% of the students will complete 90% of the labs with a grade of a B or better.	Sample of lab experiments to assess troubleshooting and installation knowledge in TER 1210.	6/1/2010

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Learning Outcome

Students will obtain technical knowledge required to pass certification testing in areas of Heating, Ventilation, Air Conditioning and Refrigeration, and refrigerant handling. [This outcome encompasses all three Certificate levels.]

Benchmark	Assessment Method	Assessment Date
272.3A 80% pass rate on EPA Section 608-ESCO Institute, NATE, and HVAC Excellence.	Student pass rates on certification exams reported to the college. This benchmark is based on graduates and non-graduates. Also, the information is provided to the college by the testing agency. Sub test scores are also available.	6/1/2010