

## Course Outcomes AET-104 Geothermal Installation

**Course Title:** AET-104 Geothermal Installation

**Course Instructor(s):** Anthony Valente

**Programs:** Alternative Energy Technology

### **Expected Learning Outcomes**

- Perform Geo-thermal mechanical installation as part of a work crew.
- Follow safe work practices.
- Identify problems and take corrective action.
- Install and repair piping systems.
- Identify routine and preventive maintenance requirements and perform such task.
- Collect and evaluate operational data.
- Calculate basic electrical and thermal load.

### **Assessment**

Assessments will include:

2 written tests and a final written exam

Classroom lab exercises and assignments

### **Validation**

1. Comparison of final exam results with national average skills in the Geothermal field of work.
2. The evaluation of student performance and ability to transfer knowledge to next level of class in the program.
3. Consult Advisory Committee participants as to performance of interns and hired students based on ability and knowledge gained.

### **Results**

The results of the testing and final examination will show the level of retention of the classroom materials.

The results of the practice exercises and assignments will show the ability of the student to transfer textbook information to hands-on applications.

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The results of the Advisory Committee input will allow us to place a rate of success in our database for ongoing improvement to the course and advise us of changes in technology and industry standards.

Internships will measure the student outcomes in a real world environment through feedback from internship supervisor

#### **Follow-up**

The data will be evaluated to improve teaching techniques

The data will be evaluated to help us remain up to date with technology changes.

#### **Budget Justification**

Update textbook to include changes in technology

Update classroom equipment to keep pace with changes in technology