

Course Outcomes AET-106 Photovoltaic Installation

Course Title: AET-106 Photovoltaic Installation

Course Instructor(s): Anthony Valente

Programs: Alternative Energy Technology

Expected Learning Outcomes

- Specify and install a typical photovoltaic system.
- Collect and evaluate data from a solar voltaic system.
- Start up a photovoltaic system.
- Maintain and trouble-shoot a photovoltaic system.
- Work safely and efficiently.
- Calculate basic electrical 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 soloa 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.

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.

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

During the spring of 2016, one of the students gain employment with solar city and was installing solar modules throughout the semester. Reports indicate the student is performing well with the company. A second student received employment part-time as a sales representative for Vivint Solar. Although the student has previous sales background he is not interested in sales as a career but has performed well based on feedback from the company.

The average classroom grades for the spring of 2016 were 92% respectively. This was a relatively small class but was needed to semester for to students to graduate.

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.

There were no internships during this semester, mostly part-time installation employment which is in high demand currently. We will continue to follow-up with students and companies students are working with to receive feedback as to their progress where feasible.

Budget Justification

Update textbook to include changes in technology

Update classroom equipment to keep pace with changes in technology

No additional budget funds requested at this time.