

Course Outcome Guide (COG)

Course Title: AET-106 Photovoltaic Installation

Date: Spring 2018

Course Team: Greg Betz

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 troubleshoot a photovoltaic system
- Work safely and efficiently
- Calculate proper wire size

Assessment

- Total of 3 tests throughout the semester
- Classroom lab exercises and assignments

Validation

- Comparison of students grades with previous semesters
- Consult internship supervisors and companies about performance of interns and hired students based on ability and knowledge gained.
- The evaluation of student performance and ability to transfer knowledge to next level of class in the program.

Results

- The results of tests show how much of the content the students have retained throughout the semester
- Hands on exercises show the capability of students to transfer knowledge they have read into hands on applications
- Internships will measure the student outcomes in a real world environment through feedback from internship supervisor
- **Spring 2018**
 - Class average 88%. Previous semester 78%
 - Class Size: 3
 - Students were successful at performing hand on classroom assignments

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