Course Outcomes INT-111 Pump & Motor Operation and Maintenance

**Course Title:** INT-111 Pump and Motor Operation and Maintenance

**Course Instructor(s):** Anthony Valente, Ken Allen

**Programs:** Industrial Technology, Alternative Energy Technology

**Expected Learning Outcomes**

- Monitor and evaluate a typical pump system.
- Specify and install the correct pump for the application.
- Develop a preventive maintenance plan for a pump system.
- Perform maintenance on a pump system.
- Repair a typical pump system.
- Determine and correct the reason for a motor failure.

**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 electrical, energy, commercial, and industrial 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.
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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.

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