Course Title: INT-106 Welding

Course Instructor(s): Daryl Mummert

Programs: Industrial Technology

Expected Learning Outcomes

- Describe weld shop safety practices and procedures
- Recognize and set up welding and cutting equipment
- Recognize and understand industry welding terminology
- Understand the differences in welding with each type of current on relationship to the welding process
- On an entry level be able to torch cut, plasma cut, and weld common metals using oxy-fuel, AC/DC arc, MIG and TIG welding equipment
- Recognize signs and causes of weld joint 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 HVAC and energy 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.

The average grade for students during the spring 2014 semester was 89%.

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

No Welding Interns during this semester.

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.

As a result of implementing the Welding LOR, The class content was modified to reduce subject matter that is less in demand based on technology advancements and increase new technology by implementing Inverter welding and automatic welding technology.

Budget Justification

Update textbook to include changes in technology
Update classroom equipment to keep pace with changes in technology