

**Course Title:** INT-106 Introduction to Welding

**Course Instructor(s):** Jonas Smith

**Programs:** Industrial Technology and Welding Letter of Recognition

### **Expected Learning Outcomes**

- The ability to write a proposal for a welding fabrication job
- Review plans
- Derive a bill of materials
- Perform a cost estimate
- List and cost of out materials
- Obtain materials from a supplier
- Build and test a quality project

### **Assessment**

Assessments will include:

1 written exam, 1 written assignment, and hands-on final project

### **Validation**

1. Comparison of final exam results with national average skills in the welding, industrial, and commercial 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 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.

*During the Fall 2015 semester it was noted that the average grade for this course was 88%. Students performed as expected during the classroom activities given the fact that this is the first exposure to welding for most of the students. Shop cleanliness was emphasized to the students as there is an attempt to set an example for students who may consider the new advanced manufacturing program which includes lean manufacturing and quality assurance concepts.*

### **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.

*No changes required at this time.*

### **Budget Justification**

Update textbook to include changes in technology

Update classroom equipment to keep pace with changes in technology

*No Changes required at this time to Textbook or Budget.*