



## Associate in Technology Welding-Outcomes

**Students will demonstrate outcomes in each of the following areas:**

### **Welding**

After successfully completing the Welding requirements, students will:

1. Weld to code standards in all positions with at least two welding processes.
2. Oxy-fuel cut and carbon arc gouge code quality joint preparations.
3. Locate, select, and apply technical welding procedural data from manufacturer resources.
4. Select appropriate consumables and set up welding power-sources and wire-feeding units for common manual and semi-automatic welding operations from memory and an understanding of the process controls.
5. Identify and solve operator level welding equipment problems.
6. Recognize and avoid or resolve potentially hazardous situations related to welding operations.
7. Identify, compute, and apply measurements from blueprints in order to fabricate.
8. Demonstrate appropriate workplace behaviors.

### **Communications**

After successfully completing the communications requirement, students will:

1. Demonstrate literal and inferential comprehension.
2. Communicate clearly and effectively in appropriate contexts.

### **Computation**

Students successfully completing the computation requirement, students will:

1. Apply algebraic, analytic, geometric or statistical reasoning to solve abstract and applied problems appropriate to an individual discipline
2. Interpret mathematical, quantitative or symbolic models such as formulas, graphs and tables, and draw inferences from them
3. Employ basic symbolic or quantitative reasoning to support a position or conclusion
4. Identify, compute, and apply measurements from prints in order to fabricate.

### **Human Relations**

After successfully completing the human relations requirement, students will:

1. Understand, articulate, and evaluate how various factors (e.g., social, personal/individual, historical, political, and economic) influence human behavior.

2. Understand, articulate, and evaluate the applicability of significant theoretical perspectives (e.g., conflict theory, feminist theory, cognitive behavioral theory) as they relate to contemporary social issues.

### **Health/PE Outcomes**

After successfully completing the PE requirement, students will:

1. Understand and articulate the various elements of fitness (e.g., cardiovascular endurance, strength, flexibility, body composition).
2. Understand, articulate, and evaluate how various factors (e.g., genetics, diet, activity) promote health and wellness.
3. Understand and practice safe workout practices.
4. Identify, understand, evaluate, and apply appropriate fitness strategies (e.g., diet, exercise).