AAS in Welding and Fabrication Technology Management – Outcomes and Assessment

College of Physical Sciences and Engineering
Department of Mechanical Engineering

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Program Outcome 1
What will our students know, be able to do, or become?

• Students will demonstrate their knowledge and application of the laws of physical science and math to fundamental design and fabrication problems.

Evidence of Learning
How will we know that our students have learned, developed skills, or become?

• Evidence

Taking Informed Action
What changes and improvements does the evidence suggest? What changes have been made or planned?

• Plans

Program Outcome 2
What will our students know, be able to do, or become?

• Students will use modern CAD/CAM software to develop solutions to design and fabrication problems.

Evidence of Learning
How will we know that our students have learned, developed skills, or become?

• Evidence

Taking Informed Action
What changes and improvements does the evidence suggest? What changes have been made or planned?

• Plans

Program Outcome 3
What will our students know, be able to do, or become?

• Students will competently present their technical findings to peers, supervisors, and the faculty in both oral and written format.

Evidence of Learning
How will we know that our students have learned, developed skills, or become?
• Evidence

Taking Informed Action
What changes and improvements does the evidence suggest? What changes have been made or planned?

• Plans

Program Outcome 4
What will our students know, be able to do, or become?

• Students will design, model, and manufacture components or elementary systems to meet product specifications.

Evidence of Learning
How will we know that our students have learned, developed skills, or become?

• Evidence

Taking Informed Action
What changes and improvements does the evidence suggest? What changes have been made or planned?

• Plans

Program Outcome 5
What will our students know, be able to do, or become?

• Students will demonstrate an understanding of modern manufacturing processes.

Evidence of Learning
How will we know that our students have learned, developed skills, or become?

• Evidence

Taking Informed Action
What changes and improvements does the evidence suggest? What changes have been made or planned?

• Plans

Program Outcome 6
What will our students know, be able to do, or become?

• Students will demonstrate an understanding of modern welding processes.

Evidence of Learning
How will we know that our students have learned, developed skills, or become?
Evidence

**Taking Informed Action**  
*What changes and improvements does the evidence suggest? What changes have been made or planned?*

- Plans

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**Program Outcome 7**  
*What will our students know, be able to do, or become?*

- Learn to function as a contributing team member in a technical work environment.

**Evidence of Learning**  
*How will we know that our students have learned, developed skills, or become?*

- Evidence

**Taking Informed Action**  
*What changes and improvements does the evidence suggest? What changes have been made or planned?*

- Plans
General Analysis and Action

Overall, how well are our students progressing toward our outcomes?

Which students are progressing well?

What do we know about why they are doing well?

Which students aren't making good progress?

What do we know about them?

Having gathered evidence, resources, and colleagues, we have identified these strengths:

1

2

Having gathered evidence, resources, and colleagues, we have identified these action steps for improvement:

1

2