Instructional Program Review- Annual Update Template

Instructional Program

Indicate the type of program: ☐ AA; ☐AS; ☐AA-T; ☐AS-T; ☒Certificate

Program Name: Welding Technology, COA

Academic Year: 2025 - 2026

Name of Faculty Submitter(s): Brian Packer

Annual Update #1 ☒ #2 ☐

Note: An Annual Update must be submitted each year that a Program Review is not submitted.

I. Progress on Program Level Outcomes (PLOs) and Student Learning Outcomes (SLOs) Data

A) Summarize the progress made on course level outcomes and assessments (SLOs):
The overall average success rate is 75.8%, suggesting that most students are meeting the expected learning outcomes. Courses such as WELD55A, WELD51, and WELD52 show particularly strong performance, with success rates well above the average, indicating effective instruction and student mastery of skills. In contrast, WELD57A has the lowest success rate at 52.6%, highlighting a potential area for instructional improvement or curriculum review. The distribution of success rates across courses reflects both strengths and opportunities for growth in achieving student learning outcomes within the welding program.

B) Please list specific courses or SLOs that were identified for student-centered growth and improvement.
Use the information from Part C of the "Program Learning Outcomes Assessment Data" section of the IPR.
From previous Program Review: PSLO 3 is skewed because it is currently being assessed on a grading scale rather than a pass or fail. Students may perform a weld on this test that is good, but does not pass the destructive testing required. While this is true, success rates are in the upper nineties percentile. One thing that was noticed is the lower success rates of the only course being offered fully online. Most recent data shows that the fully online course, weld 56, is slightly higher than weld 57A.
   1) List the actions identified to help grow or improve those areas.
   Rubrics could be created/modified to help with the compatibility between the practical assessments that the students perform and PSLO 3. Over the summer, the online course, Weld 56, was offered as a hybrid course to find out if the students' success was improved. There is no data in Tableau for summer 2025 currently-we may revisit this idea. We will also conduct student surveys and may revise the course shell.
   2) Discuss the progress the program has made on those actions. Include any data used to support progress.

To ensure compatibility between student performance in practical welding assessments and Program Student Learning Outcome (PSLO) 3, rubrics have been developed that translate industry standards into academic grading criteria. Although the AWS (American Welding Society) certification referenced in SLO 3 is typically evaluated on a pass/fail basis, our academic framework allows for a more detailed assessment using a graded scale.

By adapting AWS welding test criteria into rubric form, instructors can evaluate specific competencies such as weld quality, technique, safety adherence, and equipment handling along a continuum. This enables us to measure student progress more precisely, even if they do not pursue or achieve industry certification. It also allows us to track success rates across cohorts and support students in meeting industry standards while maintaining academic rigor.

This approach ensures that students are assessed in alignment with industry expectations but within an educational context that values growth and development. However, Weld 56 continues to show lower success rates compared to other courses. This discrepancy should be further investigated to identify potential gaps in instruction, curriculum alignment, or student preparedness.

C) Please list any actions identified to support equitable outcomes.
*Use the information from Part D of the "Program Learning Outcomes Assessment Data" section in the IPR.*
Ethnicity, race, and gender differences are very consistent in their outcomes, however black/African American students have had a lower success rate for the past two years

1) List the specific student groups the program identified as students they would like to focus their efforts on.
African American students have had a lower success rate compared to other ethnicity groups in past over the past few years. Success Rates of Black/African American students has increased during this period, while White and Two or More have decreased.

Program Course Success Rates
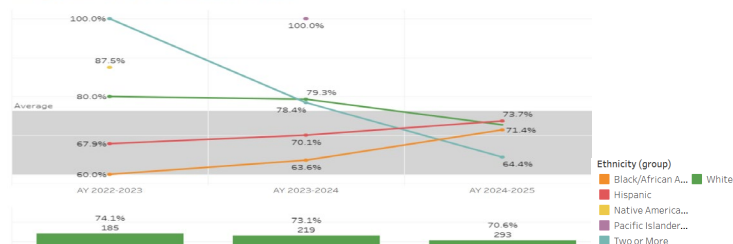
2) Discuss any progress with equitable action within the program and any measures taken to ensure the identified student group(s) would receive appropriate support. Include any data used to support progress.
CTE has increased the outreach to grade schools and the community. Year 22-23 had a success rate of 60.0%, 23-24 had a success rate of 63.6%, and 24-25 had a success rate

of 71.4%. This show that the African American ethnicity is trending in the direction of higher success.

D) Describe any other program, course, and/or instructional changes made by your program as a result of the outcomes assessment process.
There have not been any significant changes in the program as a result of the outcomes assessment process since the outcomes assessments have a high success rate.

E) Reflecting on the responses for B) and C) above, what will you implement for the next assessment cycle?
We will continue to outreach to grade school students and the community to find out if there is a correlation between the outreach and African American success rates.

II. Progress Toward Achieving Program Goals, Objectives, and Outcomes
These should be carried forward from your full Program Review (Section III), or from your Annual Update #1, if revised since your full Program Review.

A) **List the 2-3 goals from your Program Review or most recent update.**

1. **GOAL #1**
   To enhance enrollment counts and effectiveness in the next academic year.

2. **GOAL #2**
   Offer BCC welding as an American Welding Society accredited testing facility for the students and the general public.

3. **GOAL #3**
   There was no goal #3.

B) **Have any goals been completed or discontinued?**
If yes, please list the goal and whether it has been completed or discontinued; if discontinued, please explain why.
Yes ☒   No ☐

Goal #1 has been met in respect to increasing enrollment counts with the addition of more courses being offered but additional consumables are required to keep up with these courses and prices have increased for these consumables as well.

Certificate of Achievement, Welding Technology" illustrates a clear upward trend in the number of awards conferred over three academic years. Beginning with just 2 awards in 2022–2023, the program saw a notable increase to 7 awards in 2023–2024, followed by a significant rise to 15 awards in 2024–2025. This progression reflects growing student achievement and possibly increased enrollment or program effectiveness over time.

C) **Discuss the objectives and related outcomes for each goal.**

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1. **GOAL #1 Objective(s) with related Outcome.**

Objective 1: Our capacity is limited by the limited space and welding machines that we have. Purchase more machines to support current enrollment in weld 55B. We have six machines for fourteen students, which limits their time welding because it is necessary for them to take turns. Maintain and or increase funding for new technology and more machines.

Objective 2: To hire more faculty for the welding program.

Objective 3: Increase space for the BCC welding students. Our capacity is limited by the limited space and welding machines that we have.

Objective 4: Increase funding for consumable materials as industry pricing has increased tremendously. recently and expand and replace old equipment. Use funding resources to maximize classroom size and space for labs. Provide new equipment and technologies as new technologies come forth. Increase funding for consumable materials.

Outcome Statements: Utilize space for more efficient student training.

Improvements and additions to facilities.

To enhance facilities so that it will support industrial training needs.

Being able to have sufficient consumable materials and enough machines for all students in the courses.

- **Discuss any progress toward meeting the goal based on the goal objectives.**
  More faculty has been hired, which has allowed us to offer more classes. This has increased enrollment counts. We have utilized the space that we have as efficiently as possible. We still need increased funding for consumables.

- **Briefly explain how you have been measuring the goal and any notable indicators of forward progress.**
  Additional courses that have been offered because we now have additional faculty have been filled to capacity for most of the courses offered so we have made progress on our goal of enhancing enrollment. This is reflected in the data showing enrollment counts and courses offered.

2. **GOAL #2 Objectives with related Outcome.**
   Objective 1: Get all faculty American Welding Society (AWS) welding inspection certifications (CWI).

   Objective 2: Research requirements for becoming an AWS ATF.

   All welding faculty will be certified welding inspectors meeting the accreditations requirements for AWS. Becoming an AWS accredited testing facility would allow BCC to accommodate students and the general public of the high desert region the ability to earn AWS welding certifications external to our current welding program.

- **Discuss any progress toward meeting the goal based on the goal objectives.**

We have not made progress toward meeting this goal. As of now, no additional faculty have taken the tests and test preparation course to obtain the welding inspector certification, but if funding permits we will get at least one faculty member trained and certified in the 2025-2026 academic year.

- **Briefly explain how you have been measuring the goal and any notable indicators of forward progress.**
  No additional faculty has obtained AWS CWI credentials.

3. **GOAL #3 Objectives with related Outcome.**
   N/A

   - **Discuss any progress toward meeting the goal based on the goal objectives.**
     N/A

   - **Briefly explain how you have been measuring the goal and any notable indicators of forward progress.**
     N/A

D) List any resource you are requesting for each goal.

1. Goal 1 ☒   Goal 2 ☐   Goal 3 ☐

   Please list the resource and how it relates to the goal.
   Increased funding for welding consumables – necessary to have enough metal, welding rod and wire and other consumables to provide students with enough practice to become proficient at welding.
   BCC has signed a lease agreement with Airgas, which will save more than renting cylinders as we have done in the past. The lease cost for the year is $4,100; Steel cost for a year is approximately $12,000; Electrodes cost for the year is approximately $10,000; Other consumables such as grinding wheels, wire wheels, etc. costs approximately $4,500 for the year; welding machine replacement parts and repairs cost approximately $9,000 for the year. The total cost of all listed is $39,600.
   MeltView APEX3 welding camera kit—will allow all students the ability to see how the weld should look while welding and how each project should be accomplished. Since the welding classes are hybrid, these videos would be uploaded to Canvas for students to view as many times as required.
   Laser Welder/cutter/cleaner—laser welders have become much more popular in recent years and also more affordable. Many students have inquired about laser welding since it is a new technology in the welding industry.
   These resources would allow BCC's welding program to be technologically up to date in welding education using some of the newest technology available.

2. Goal 1 ☐   Goal 2 ☐   Goal 3 ☐

   Please list the resource and how it relates to the goal.
   Funding for faculty CWI certification preparation and exams.

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3. Goal 1 ☐ Goal 2 ☐ Goal 3 ☐

Please list the resource and how it relates to the goal.
Click or tap here to enter text.

III. New Goals (optional)

This section is optional and should be used to replace a completed or discontinued goal OR if a new goal has become necessary for the program.

A. NEW GOAL #1
Click or tap here to enter text.

1. Alignment to BCC Strategic Priority *(Select at least one but choose all that apply)*
Choose an item.

Strategic Priority 1: Innovate to Achieve Equitable Student Success

Choose an item.

Choose an item.

2. Relationship to Guided Pathways

☐ Clarify the Path

☐ Entering the Path

☐ Staying on the Path

☐ Support Learning

3. Please list at least one objective for achieving this goal.
Click or tap here to enter text.

4. Please list outcome statements for each objective.
Click or tap here to enter text.

5. Briefly explain how you will measure the outcome.
Click or tap here to enter text.

6. Please list resources (if any) that will be needed to achieve the goal/outcome.

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Click or tap here to enter text.

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B. NEW GOAL #1

Click or tap here to enter text.

1. Alignment to BCC Strategic Priority *(Select at least one but choose all that apply)*
Choose an item.

Choose an item.

Choose an item.

Choose an item.

2. Relationship to Guided Pathways

☐   Clarify the Path

☐   Entering the Path

☐   Staying on the Path

☐   Support Learning

3. Please list at least one objective for achieving this goal.
Click or tap here to enter text.

4. Please list outcome statements for each objective.
Click or tap here to enter text.

5. Briefly explain how you will measure the outcome.
Click or tap here to enter text.

6. Please list resources (if any) that will be needed to achieve the goal/outcome.
Click or tap here to enter text.

IV. Resource Requests: What does the program need to meet its goals and objectives?

What does the program need to meet its goals and objectives?
List all resources from Sections II.D and III.6 below.
If there was no room on the template to list all resources being requested for a single goal/objective, you

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may list additional resource requests here. Also list any resources required to implement planned improvements.

IMPORTANT: A <u>BUDGET ALLOCATION PROPOSAL</u> must be completed and submitted for **EACH** new resource requested.

Goal #	Objective #	Resource Required	Estimated Cost	BAP Required? Yes or No	In No, indicate funding source
1	4	Increased funding for consumables.	$40,000	Yes	Click or tap here to enter text.
2	1	Welding inspector certification initial ($4,000 each) and renewals ($605 - $870 each every 3 years).	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.
1	4	MeltView APEX3 welding camera kit.	$8,600	Yes	Click or tap here to enter text.
Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.
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