

YEARLY PLANNING DISCUSSION

General Questions

Program Name Welding Technology **Academic Year** 2022/2023

1. Has your program mission or primary function changed in the last year?

The mission of the Welding Technology Program at Allan Hancock College remains the same.

2. Were there any noteworthy changes to the program over the past year? (eg, new courses, degrees, certificates, articulation agreements)

We now have concurrent enrollment at the three major feeder High Schools in our service area.

Learning Outcomes Assessment

- a. Please summarize key results from this year's assessment.
A digital learning outcome assessment tool is being worked on. Once adopted we will use the tool to assess the learning outcomes.
- b. Please summarize your reflections, analysis, and interpretation of the learning outcome assessment and data.
- c. Please summarize recommendations and/or accolades that were made within the program/department.
- d. Please review and attach any changes to planning documentation, including PLO rubrics, associations, and cycles planning.

3. Is your two-year program map in place and were there any challenges maintaining the planned schedule?

The two-year program map is in place and students are able to complete the welding technology program in two years.

4. Were there any staffing changes?

A part time welding instructor that might strengthen the partnership at one of the local high school was identified and is now part of the welding faculty at Allan Hancock College.

We currently don't have a lab technician that can help maintain the equipment and prepare the many materials for the many different welding classes.

5. What were your program successes in your area of focus last year?

Several students successfully completed the program during the pandemic. The community college pipeline shows ten students completed the program in 2020-2021.

CTE two-year review of labor market data and pre-requisite review

6. Does the program meet documented labor market demand?

Lightcast Occupation Overview shows lower regional employment than the national average for our area with only 640 jobs in 2022 compared to a national average of 1,040. Something that the data might not show is the role welding plays in all major industries. For example, maintenance workers who have the ability to make weld repairs are more valuable than repair personal that do not have welding knowledge.

7. How does the program address needs that are not met by similar programs?

The Welding Technology program provides opportunities for students seeking an entry level position in a hands-on career in the welding industry or in welding related fields.

8. Does the employment, completion, and success data of students indicate program effectiveness and vitality? Please, explain.

The Welding Program is meeting local industry demand and the earnings for welders, cutters, solderers, and brazers is slightly higher than the national average. Even though the job posting demand is low for this area the role welding plays in all major industries is not reflected in the data. The completion rate for 2020-2021 was low with only ten students but the program found a way of helping students even during the pandemic. Student retention rate for 2020-2021 was 74%.

9. Has the program met the Title 5 requirements to review course prerequisites, and advisories within the prescribed cycle of every 2 year for CTE programs and every 5 years for all others?

The prerequisites and advisories have been reviewed within the last two years.

10. Have recommendations from the previous report been addressed?

This is the first of this report and do not have recommendations from previous reports.

Validation for Program Planning Process:

11. Who have you identified to validate your findings? (Could include Guided Pathway Success Teams, Advisory Committee Members, related faculty, industry partners or higher education partners)

Industrial Technology Faculty

12. Are there specific recommendations regarding the core topic responses from the validation team?

There are no specific recommendations regarding the core topic responses at this time.

EDUCATION AND INDUSTRY PARTNERSHIPS

Education and Industry Partnerships – review relationships with four-year institutions including preparation for transfer and changes in major requirements assess employment as well as review employment and the needs of employers and regional partners. Sample activities include the following:

Possible topics:

- Review academic transfers and associate degree for transfer alignments.
- Review articulation agreements.
- Review C-ID (course identification system) modifications.
- Integrate advisory committee recommendations and regional training needs.
- Review career and technical education (CTE) labor market information and trends.
- Explore collaborations, internships and externships, and cooperative work experience opportunities.
- CTE unit completion goals in the Student Centered Funding Formula and CCCCO Vision for Success.

1. What data were analyzed and what were the main conclusions?

Articulation /partnerships

The Welding Technology Program at Allan Hancock College has a partnership with three of the high schools in Santa Maria. Students in any of the three large feeder high schools may take the introductory course in welding at their high school. In this way we are reaching out to non-traditional students and economically disadvantaged students before they graduate from high school. Students may then continue their education in welding by taking more advanced and more focused courses at Allan Hancock College to complete their degrees or certificates.

The Welding faculty have participated at EPIC engineering Possibilities in college at Cal Poly San Luis Obispo, and have had Industrial Technology faculty from the university present to welding students to encourage a smooth transition for students wanting to take their education further than community college.

The Welding Technology program at Allan Hancock College has partnerships with local industries such as the one with Melfred Borzall and Atlas Copco Mafi-Trench in Santa Maria. At Melfred Borzall internship opportunities for welding students are offered during the summer. The relationships with the local industry are maintained by having instructors work for local shops that hire our students or in the welding industry in general. This also ensures currency in industry and it helps us meet regional training needs.

2. Based on the data analysis and looking through a lens of equity, what do you perceive as *challenges* with student success or access in your area of focus?

The Welding Technology Program works to serve under represented, non-traditional and economically disadvantaged students by providing the opportunity to enter a career in which students may change their lives in a positive way by having a steady income in a short amount of time and pave the way for more opportunities to present themselves in their future. Community College Pipeline shows 92% economically disadvantaged for 2020-2021 academic year. It also shows that 87% were male, 67% were Hispanic, and 75% were under the age of 25. It also shows that 83% were part time students.

The completion rate for males in the community college system has been in decline for a long time and it is the goal of the Welding Technology Program to help young males achieve success. Before the pandemic in the 2018-2019 academic year the program showed a 76% retention rate

The main challenge the program faces is the high cost of materials needed to teach the real skills needed by students seeking to enter a career in welding. Real building material are used to learn the real skill needed to enter the trades and a heavy price is placed on obtaining the skills needed to be successful in gaining employment. The high price is not easy on the typical economically disadvantaged student seeking gainful employment.

3. What are your plans for change or *innovation*?

The Welding Technology Program needs to continually update the equipment to keep up with the ever-changing needs of the welding and fabrication industries. More competitive equipment is always being developed and the welding technology program recognizes the need to train students with the latest equipment and processes to make graduates of the program more competitive in the job market. There are 40 welding stations that serve the current number of classes with a at least one welding inverter machine each. The life expectancy of each inverter welder is 10 years. If the program replaces 4 welders each year, the program would be on a 10-year cycle to replace the welders before they expire.

The Welding Technology Program recognizes the need to make offerings to help students complete the program within two years so that students may start their careers in an efficient manner. The Welding Technology Program also recognizes that many students seek only skills that will lead them to employment in many different trades.

4. How will you *measure* the results of your plans to determine if they are successful?

The Welding Technology Program plans to continue to track local employment data and completion of certificate and degrees in Welding Technology. The Welding Technology Program has been successful. As proof, all the instructors in the Welding Technology Program are former students of Allan Hancock College and are working in the Welding industry. It is the goal of the faculty in the Welding Technology Program to continue to help students achieve success by entering a career of their choosing in spite of the challenges.

Based on the narratives for the prompts above, what are some program planning initiatives and resources needed for the upcoming years? Use the tables below to fill in **NEW** resources and planning initiatives. ***This section is only used if there are new planning initiatives and resources requested.***

Example:

	Definition	Sample
Mission	The values and philosophy of the program, a vision of what the program is supposed to do.	The mission of the English program is to develop students' reading and writing skills by providing opportunities for critical thinking, research, and analysis. Moreover, the program affirms its promotion of equity and diversity among the community by providing opportunities and outreach to eradicate illiteracy.
Goals	The general aims or purposes of the program and its curriculum. Effective goals are broadly stated, meaningful, achievable and can lead to assessable outcomes.	Increase literacy and writing competency within the students and college community.
Program planning initiatives	Program planning initiatives are specific activities that a program would need to complete in order to achieve goals and mission.	Develop community literacy program for historically underrepresented populations.
Actions/Resource Request	These are the specific actions/resources needed to complete a planning initiative.	Gather volunteers from students and teachers to tutor at community center. Budget: \$500 for supplies.

The tables below are to create objectives/planning initiatives that come from the discussion and narrative above.

Sample:

New Program Planning Initiative	
Title:	<i>(Short description of the planning initiative)</i> Telescope night
Planning years:	<i>(The academic years this will take to complete)</i> 2021-22 to 2024-25
Description:	
<p><i>(A more detailed version of initiative. Please include a description of the initiative, why it is needed, who will be responsible, and actions that need to happen, so it is completed.)</i></p> <p>The success levels of our courses have indicated that students need to have a hands-on experience with finding and pinpointing important celestial objects. Having a telescope night would allow students to learn how to align and find objects.</p>	
Resources:	
<p>Priority Level: Low Medium High</p> <p>Resource Type: Equipment Staff Faculty Supplies and Materials</p> <p>Quantity: 1</p> <p>Per Item Price: \$69.99 Price with taxes/shipping, etc.: \$76.00</p> <p>Description:</p> <p>Telescopes for students to use during the telescope nights. It is a 70mm telescopes for Adults Astronomy & Kids & Beginners, 300mm Portable Refractor Travel Telescope (15X-150X) with A Smartphone Adapter& A Wireless Remote</p> <p>https://www.amazon.com/ToyerBee-Telescope-Telescopes-Professional-Smartphone/dp/B095XQVTNM/ref=sr_1_4?crid=256FVSAQ5EU0P&keywords=telescope&qid=1667944660&sprefix=telescop%2Caps%2C160&sr=8-4&ufe=app_do%3Aamzn1.fos.18ed3cb5-28d5-4975-8bc7-93deae8f9840</p>	

New Program Planning Initiative	
Title:	Equipment update and innovation
Planning years:	2023/2033
Description:	
<p>Four welders are needed to be replaced each year to maintain the equipment on a 10-year cycle. Current inverter technology experts say that the inverters have a ten-year life expectancy. With the number of inverters, we have, we need to replace four inverter welder each year to remain current with new technology and to make sure a large number of welders don't stop working in the middle of the semester.</p>	
Resources:	
<p>Priority Level: High Resource Type: Equipment Quantity: 4 Per Item Price: 6,095 + 7,944 = \$14039 Price with taxes/shipping, etc: \$56156 Description: Lincoln Flextech 350X Power Connect Welder with Flex Feed 84 Dual feeder</p> <p>Lincoln Flextec 500X Pulsed MIG Multi Process Welder for sale (K3607-1) - Welding Supplies from IOC</p> <p>flex feed 84 dual wire feeders - Bing - Shopping</p>	

New Program Planning Initiative	
Title:	Outreach Vehicle
Planning years:	2023/2024
Description:	
<p>Used Moving van to be retrofitted to reach out to the high schools and to the community at large to present welding as a career option to economically disadvantaged and nontraditional students.</p>	

Resources:

Priority Level: Medium

Resource Type: Equipment

Quantity: 1

Per Item Price: \$105,460

Price with taxes/shipping, etc: \$116,006

Description: Moving van

[20' International CV Mini Mover | New Moving Vans For Sale](#)

New Program Planning Initiative

Title:

Welding lab materials

Planning years:

2022-2023

Description:

Rising cost of materials for welding students has risen sharply during recent years and consideration has been given against increasing the cost to the student because it will disproportionately impact economically disadvantaged students wishing to gain a career in the welding industry.

Resources:

Priority Level: Medium

Resource Type: Supplies and Materials

Quantity: \$12,000

Per Item Price:

Price with taxes/shipping, etc: \$12,000

Description: Over the last several years the price of welding gases, metal and welding consumables and electrodes has risen sharply.


Program Review Signature Page:

Gabriel Marquez
Program Review Lead

4/28/2023
Date

Thomas Lamica
Thomas Lamica (May 2, 2023 08:58 PDT)
Program Dean

May 2, 2023
Date


Vice President, Academic Affairs

Jun 27, 2023
Date












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Final Audit Report

2023-06-27

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