

## Program Review

**Associate in Applied Science (AAS) and Certificate (CER)  
Industrial Systems Technology—Welding  
(CIP: 47.0303)  
Short-Term Certificate (STC)  
Welding Technology  
(CIP: 48.0508)**

### Program Purpose

<b>What is the published purpose/mission of the program?</b>
The Welding Technology Program prepares students for entry-level employment in the welding technology field.
<b>How does the program's purpose/mission fit into the overall mission of the college?</b>
The WDT program supports NACC Mission goals three, five, and seven.
<b>Do any changes need to be made to the program's purpose/mission? Explain.</b>
The program's current purpose/mission is accurate. No changes to the program's purpose/mission are needed at this time.
<b>Do any changes need to be made to how the program's purpose/mission fits into the overall college mission? Explain.</b>
No changes to how the program's purpose/mission fits into the overall college mission are needed at this time.

## Program Learning Outcomes

### What are the program learning outcomes?

A.A.S.— Industrial Systems Technology – Welding Option

Graduates of the Industrial Systems Technology Program (Welding Option) will be able to:

- Function as a competent entry-level welder by demonstrating knowledge and skills retained from coursework (ADM 150-154)
- Perform all tasks in a safe manner. (ADM 150-154)
- Exhibit a positive work ethic. (ADM 150-154)

### How are the Program Learning Outcomes assessed?

#### **The student will perform all task in a safe manner.**

In ADM 150-154, throughout the class the student will perform tasks in a safe manner with 100% proficiency according to the Standardized Occupational Safety and Health Rubric.

#### **The student will exhibit a positive work ethic.**

In ADM 150-154, the student's work ethic will be assessed by scoring at least 30 points on a standardized Workplace Readiness Skills Rubric.

#### **The student will function as a competent entry-level machinist.**

In ADM 150-154, before entering the cooperative education program, the student must score a minimum of 75% on a comprehensive knowledge and skills checklist.

### What can students do with the knowledge they have after completing the program?

Pursue gainful employment in the construction, manufacturing, or aerospace welding field.

### What are the plans for reviewing the program learning outcomes and revising them?

Program learning outcomes are reviewed annually. When instructors submit their program learning outcomes forms, they can suggest improvements. Program coordinators can work with the Dean of Workforce Development to implement changes.

## Assessed Needs and Assumptions

### What are the occupational projections for careers for which the program trains?

National Employment Projections by Occupational Group						
Occupation	Employment		Employment Change	Employment Percent Change	Average Annual Openings	Median Annual Wage
	2021	2031	2021-2031	2021-2031	2021-2031	2021
Welders, Cutters, Solderers, and Brazers (51-4121)	428K	434.9K	6.9K	1.6	47.6K	\$47K
Welding, Soldering, and Brazing machine setters, operators, and tenders (51-4122)	32.3K	29.7K	-2.6K	-7.9	3.1K	\$38.6K

Source: <https://www.bls.gov>

State Employment Projections by Occupational Group						
Occupation	Employment		Employment Change	Employment Percent Change	Average Annual Openings	
	2020	2030	2020-2030	2020-2030	2020-2030	
Steel Product Manufacturing from Purchased Steel (331200)	3.4K	3.68K	280	8.37	0.81	
Fabricated Metal Product Manufacturing (332000)	25.9K	28.2K	2.3K	8.77	0.37	
Other Fabricated Metal Product Manufacturing (332900)	4.1K	5.4K	1.3K	29.49	2.62	
Aerospace Product and Parts Manufacturing	12.8K	15.7K	2.9K	22.42	2.04	

Source: <http://www2.labor.alabama.gov>

**Based on the occupational projections, what is the employment outlook for graduates of the program?**

Employment outlook for welders is excellent, with expected growth in our state of 17% over the next ten years.

**What is the outlook for the continued need of the program within the mission of the college?**

The welding program continues to help the college fulfill its mission and specifically, goals 3, 5 and 7. It is expected that this need will continue indefinitely.

## Structure

### What credentials does the program offer?

Associate in Applied Science Degree (AAS)  
Industrial Systems Technology – Welding Technology Option

Certificate (CER)  
Industrial Systems Technology – Welding Technology

Short-Term Certificate (STC)  
Industrial Systems Technology – Welding Technology  
Industrial Systems Technology – Structural Welding Technology

### What are the requirements for each credential?

*Associate in Applied Science Degree (AAS). Degree plan retrieved from NACC DegreeWorks, November 1, 2022.*

#### General Education Core: Areas I-IV

INCOMPLETE

Credits required: 21 Credits applied: 0 Catalog year: 2022-2023

<input type="radio"/>	Minimum Credits Required	<b>Still needed:</b>	You currently have 0 credits including both earned and in-progress courses. You need to successfully complete a minimum of 21 additional credits.
<input type="radio"/>	AREA I - WRITTEN COMPOSITION	<b>Still needed:</b>	1 Class in <a href="#">ENG 100</a> or <a href="#">101</a>
<input type="radio"/>	AREA II - HUMANITIES & FINE ARTS		
<input type="radio"/>	Fundamentals of Oral Communication or Public Speaking	<b>Still needed:</b>	1 Class in <a href="#">SPH 106</a> or <a href="#">107</a>
<input type="radio"/>	Humanities & Fine Arts	<b>Still needed:</b>	1 Class in <a href="#">ART 100</a> or <a href="#">203</a> or <a href="#">204</a> or <a href="#">MUS 101</a> or <a href="#">PHL 206</a> or <a href="#">REL 100</a> or <a href="#">151</a> or <a href="#">152</a> or <a href="#">SPA 201</a> or <a href="#">202</a> or <a href="#">THR 120</a> or <a href="#">126</a>
<input type="radio"/>	AREA III - NATURAL SCIENCES & MATHEMATICS		
<input type="radio"/>	Microcomputer Applications	<b>Still needed:</b>	1 Class in <a href="#">CIS 146</a>
<input type="radio"/>	Mathematics	<b>Still needed:</b>	1 Class in <a href="#">BUS 271</a> or <a href="#">MTH 100</a> or <a href="#">103</a> or <a href="#">110</a> or <a href="#">112</a> or <a href="#">113</a> or <a href="#">116</a> or <a href="#">120</a> or <a href="#">125</a> or <a href="#">126</a> or <a href="#">227</a> or <a href="#">231</a> or <a href="#">232</a> or <a href="#">237</a> or <a href="#">238</a> or <a href="#">265</a>
<input type="radio"/>	Math, Science, or CIS	<b>Still needed:</b>	3 Credits in <a href="#">AST 220</a> or <a href="#">BIO 103</a> or <a href="#">104</a> or <a href="#">201</a> or <a href="#">202</a> or <a href="#">220</a> or <a href="#">230</a> or <a href="#">CHM 104</a> or <a href="#">105</a> or <a href="#">111</a> or <a href="#">112</a> or <a href="#">221</a> or <a href="#">222</a> or <a href="#">CIS @</a> or <a href="#">MTH 100</a> or <a href="#">103</a> or <a href="#">110</a> or <a href="#">112</a> or <a href="#">113</a> or <a href="#">116</a> or <a href="#">120</a> or <a href="#">125</a> or <a href="#">126</a> or <a href="#">227</a> or <a href="#">231</a> or <a href="#">232</a> or <a href="#">237</a> or <a href="#">238</a> or <a href="#">265</a> or <a href="#">PHS 111</a> or <a href="#">112</a> or <a href="#">PHY 115</a> or <a href="#">120</a> or <a href="#">201</a> or <a href="#">202</a> or <a href="#">213</a> or <a href="#">214</a>
<input type="radio"/>	AREA IV - HISTORY, SOCIAL, & BEHAVIORAL SCIENCES		
<input type="radio"/>	History, Social, & Behavioral Science	<b>Still needed:</b>	1 Class in <a href="#">ECO 231</a> or <a href="#">232</a> or <a href="#">GEO 100</a> or <a href="#">HIS 101</a> or <a href="#">102</a> or <a href="#">201</a> or <a href="#">202</a> or <a href="#">POL 211</a> or <a href="#">PSY 200</a> or <a href="#">210</a> or <a href="#">SOC 200</a> or <a href="#">210</a>

### Welding Technology: Area V

INCOMPLETE

Credits required: 45 Credits applied: 0 Catalog year: 2022-2023

<input type="radio"/>	Minimum Credits Required	<b>Still needed:</b>	You currently have 0 credits including both earned and in-progress courses. You need to successfully complete a minimum of 45 additional credits.
<input type="radio"/>	TECHNICAL CORE		
<input type="radio"/>	Principles of Industrial Mechanics	<b>Still needed:</b>	1 Class in <a href="#">INT 117</a>
<input type="radio"/>	Technical Cooperative Education	<b>Still needed:</b>	3 Credits in <a href="#">ADM 150</a> or <a href="#">151</a> or <a href="#">152</a> or <a href="#">153</a> or <a href="#">154</a>
<input type="radio"/>	Workplace Skills	<b>Still needed:</b>	1 Class in <a href="#">WKO 106</a>
<input type="radio"/>	NCCER Core	<b>Still needed:</b>	1 Class in <a href="#">WKO 110</a>
<input type="radio"/>	Principles of Mechanical Measurement & Technical Drawing	<b>Still needed:</b>	1 Class in <a href="#">INT 119</a>
<input type="radio"/>	WDT Electives	<b>Still needed:</b>	30 Credits in <a href="#">WDT @</a>

### Industrial Systems Technology – Welding Technology Certificate. Degree plan retrieved from NACC DegreeWorks, November 1, 2022.

#### General Education Core

INCOMPLETE

Credits required: 12 Credits applied: 0 Catalog year: 2022-2023

<input type="radio"/>	Minimum Credits Required	<b>Still needed:</b>	You currently have 0 credits including both earned and in-progress courses. You need to successfully complete a minimum of 12 additional credits.
<input type="radio"/>	English Composition	<b>Still needed:</b>	1 Class in <a href="#">ENG 100</a> or <a href="#">101</a>
<input type="radio"/>	Fundamentals of Oral Communication or Public Speaking	<b>Still needed:</b>	1 Class in <a href="#">SPH 106</a> or <a href="#">107</a>
<input type="radio"/>	Mathematics	<b>Still needed:</b>	1 Class in <a href="#">BUS 271</a> or <a href="#">MTH 100</a> or <a href="#">103</a> or <a href="#">110</a> or <a href="#">112</a> or <a href="#">113</a> or <a href="#">116</a> or <a href="#">120</a> or <a href="#">125</a> or <a href="#">126</a> or <a href="#">227</a> or <a href="#">231</a> or <a href="#">232</a> or <a href="#">237</a> or <a href="#">238</a> or <a href="#">265</a>
<input type="radio"/>	Microcomputer Applications	<b>Still needed:</b>	1 Class in <a href="#">CIS 146</a>

#### Welding Technology: Area V

INCOMPLETE

Credits required: 36 Credits applied: 0 Catalog year: 2022-2023

<input type="radio"/>	Minimum Credits Required	<b>Still needed:</b>	You currently have 0 credits including both earned and in-progress courses. You need to successfully complete a minimum of 36 additional credits.
<input type="radio"/>	Workplace Skills	<b>Still needed:</b>	1 Class in <a href="#">WKO 106</a>
<input type="radio"/>	NCCER Core	<b>Still needed:</b>	1 Class in <a href="#">WKO 110</a>
<input type="radio"/>	Principles of Industrial Mechanics	<b>Still needed:</b>	1 Class in <a href="#">INT 117</a>
<input type="radio"/>	Principles of Mechanical Measurement & Technical Drawing	<b>Still needed:</b>	1 Class in <a href="#">INT 119</a>
<input type="radio"/>	WDT Electives	<b>Still needed:</b>	24 Credits in <a href="#">WDT @</a>

*Welding Technology Short-Term Certificate. Degree plan retrieved from NACC DegreeWorks, November 1, 2022.*

**Welding Technology: Area V**

INCOMPLETE

Credits required: 12 Credits applied: 0 Catalog year: 2022-2023

<input type="radio"/> Minimum Credits Required	<b>Still needed:</b>	You currently have 0 credits including both earned and in-progress courses. You need to successfully complete a minimum of 12 additional credits.
<input type="radio"/> WDT Courses	<b>Still needed:</b>	12 Credits in <b>WDT</b> @

*Welding Technology – Structural Welding Short-Term Certificate. Degree plan retrieved from NACC DegreeWorks, November 1, 2022.*

**Welding Technology-Structural Welding: Area V**

INCOMPLETE

Credits required: 15 Credits applied: 0 Catalog year: 2022-2023

<input type="radio"/> Minimum Credits Required	<b>Still needed:</b>	You currently have 0 credits including both earned and in-progress courses. You need to successfully complete a minimum of 15 additional credits.
<input type="radio"/> Shielded Metal Arc Welding Groove	<b>Still needed:</b>	1 Class in <b>WDT 120</b>
<input type="radio"/> SMAW Fillet/OFC Lab	<b>Still needed:</b>	1 Class in <b>WDT 125</b>
<input type="radio"/> SMAW Fillet/OFC or PAC/CAC	<b>Still needed:</b>	1 Class in <b>WDT 108</b> or <b>109</b>
<input type="radio"/> SMAW Fillet/OFC or PAC/CAC	<b>Still needed:</b>	1 Class in <b>WDT 122</b> or <b>123</b>
<input type="radio"/> NCCER Core	<b>Still needed:</b>	1 Class in <b>WKO 110</b>

**How often are the requirements for the degree reviewed?**

The requirements for the degree are continuously reviewed to remain current with local, state, and national industry trends and needs.

**Are there any plans for revising the degree requirements?**

Due to industry trends according to members of the welding advisory board, instructors recommend adding WDT 166 and WDT 167 (FCAW Process) to the STC for Structural Welding.

## Accreditation

### What is the institutional accreditation for the program?

The Industrial Systems Technology – Welding Technology is within the institutional accreditation granted by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) and reaffirmed in 2015.

### Does the program have any program-specific accreditations?

Certified Education Center (CEC) for the Fabricators and Manufacturers Association (FMA), International. NACC and the WDT program is recognized by The Manufacturing Institute as a member of the M-List, which recognizes high schools, community colleges, and universities that are teaching manufacturing students to industry standards. The lead instructor is recognized by the American Welding Society (AWS) as a Certified Welding Inspector (CWI).

## Instructors

### Who are the current instructors in the program, and what are their credentials?

#### John Fowler, Full-Time Instructor and Program Coordinator

AAS in IST from NACC (2010)  
 27 years of experience in the welding industry  
 12 years of welding education  
 12 years as AWS Certified Welding Inspector  
 4 years as NOCTI Certified Welding Instructor

#### Mark Johnson (Adjunct)

AAS in IST from NACC (2010)  
 19 years of experience in the welding industry  
 10 years of welding education

#### Russell McFall (Adjunct)

Welding Certificate GSCC (2012)  
 AAS IST from NACC (2016)  
 5 years of welding apprenticeships  
 7 years of welding education



**How have the instructors in the program developed professionally over the past two years?**

**John Fowler (Dept. Head)**

AWS Welder Qualification Seminar (2022)  
AWS Procedure Qualification Seminar (2022)  
Various AWS Online Learning Modules

**Mark Johnson (Adjunct)**

Metallurgy Seminar (2022)  
Various AWS Online Learning Modules

**Russell McFall (Adjunct)**

Welding Educator Workshop (2021-2022)  
Career Tech Conference (2022)  
Various AWS Online Learning Modules

**What are any planned professional development activities for instructors in the program?**

Requalification tests for previously earned welding certificates  
ASME Section IX Course

**Are any additional instructors anticipated within the next five years? If so, please explain.**

Yes. Based on community and industry needs, it is expected that one or more adjuncts will be needed.

## Instructional Quality and Enhancements/Curriculum Design

### **How is the general education core incorporated into the course of study for this program?**

The AAS degree includes 21 credit hours of general education in the 66 credit-hour total: ENG 101; SPH 107; three credit hours of humanities or fine arts; MTH 100 or higher; a three-hour computer science elective; another three-hour elective in math, science, or computer science; and three credit hours in history or the social/behavioral sciences.

The certificate includes 12 credit hours of general education in the 48 credit-hour total: ENG 101, SPH 107, CIS 146, and MTH 100.

### **How is curriculum of each program option evaluated to ensure it is relevant and current? Examples include advisory committee suggestions, student learning outcome evaluations, student evaluations, etc.**

The full-time instructor and the Director of Workforce Development review the curriculum at least annually based on input from the program advisory committee and other local employers. The annual program learning outcomes review provides student learning outcomes data.

### **Describe changes that have been made in the delivery of the courses in each option of the program as a result of review of the program learning outcomes over the last five years.**

Course delivery methods are primarily didactic and lab due to the nature of the program. However, when appropriate, didactic content is made available online to facilitate hybrid courses. Hybrid and/or competency-based courses are becoming more popular with students.

### **Are courses in the program scheduled to maintain availability and accessibility in accordance with the college's mission? Explain.**

In accordance with NACC Mission Goal 3, courses are routinely offered and made available so that students can graduate on time.

## Program Resources

**Describe the physical facilities and resources, including any laboratories, used in the program. Are the physical facilities and resources adequate? Explain.**

The program utilizes room 105 in the IST Building as a classroom for the theory portion, and room 109 as the welding lab.

Room 105 is equipped with tables and chairs along with projector and 19 laptop computers.

Room 109 is equipped with 22 ventilated welding booths as well as various pieces of metal working equipment and tools.

**Are there any plans for major expansion or upgrade of facilities or major replacement/expansion of equipment? Explain the rationale and include projected costs.**

After the opening of the new Technologies building, the program can utilize what is now the MMT shop as a fabrication shop and the ILT shop as pipe welding.

**Describe the technological resources used in the program. Are the technological resources adequate? Explain.**

The WDT welding lab is equipped with equipment and instructional technology appropriate to the courses taught, including the following: Shear, Iron Worker, Orbital pipe welding equipment, Band saw, GMAW welders, GTAW welders, SMAW welders, FCAW welders, SAW Welder

**Are there any plans for major expansion or upgrade of technological resources? Explain the rationale and include projected costs.**

Lincoln Power Wave AC/DC 1000SD Advanced Sub Arc Welder - \$41,913.00

Advanced welding power source used in the SAW (submerged arc welding) process used in many local businesses. Possesses waveform manipulation capabilities, as well as CC/CV operations with variable frequencies. The understanding of advanced sign wave and frequency manipulation, in this day, is a specialist field. The program coordinator would like to introduce students into the workforce with specific knowledge of this equipment.

**Describe the library resources that are available to the program.**

Program instructors subscribe to both the online *AWS Learning Library* and *AWS Digital Library*. NACC's Learning Resources Center provides access to the following online learning resources: an online catalog, EBSCO's Discovery Service, EBSCO's *Associates Programs Source Plus* database, EBSCO's *Academic eBook Collection*, Alexander Street Press's *Academic Video Online* database, and America's News' *Newsbank* database, and the *Alabama Virtual Library*. Combined, these resources provide students and faculty with access to over 50,000 print books, 250,000 eBooks, 60 print periodicals, 24,000 online periodicals, 79,000 audiovisual materials and digital media. In addition, the LRC has over 450 laptops and hotspots for students to check out. Librarians assist students in person and via text, phone, chat, and email. Subject-specific research guides are located at <https://libguides.nacc.edu/>

**Are the library resources adequate for the program? Explain.**

Yes. Program-specific resources and computers are available for on- or off-campus use by students and faculty.

**Are there any plans for expansion or upgrade of library resources for the program? Explain the rationale and include projected costs.**

While library resources are currently adequate, library resources are continually being updated. The projected cost for expanding library resources in this subject is \$500.

**Advisory Committee**

**Is an advisory committee in place for the program? If so, list the committee members and their affiliation in the community. If not, are plans in place to establish an advisory committee?**

Dr. David Campbell (ex officio).....President  
 Kerry Wright .....Dean of Workforce Development and Skills Training  
 John Fowler (convener) ..... WDT Instructor  
 Sean-Paul Kimball.....Iron Workers Union Local 704  
 Chris Bell.....UA Local 91  
 Mike Brooks.....Bluescope Buildings  
 Dalton Owensby .....Arcosa- Myer Utility Structures  
 Kerry Lavorne.....Telko Inc.  
 Terry Baine.....Valley Joist  
 David Rigsby.....Liberty Steel  
 Jeremy Conover.....Playcore  
 Jake Pinholster .....GH Metal Solutions

**What is the purpose and role of the advisory committee?**

To provide local industry an opportunity to provide input to college officials regarding anything from equipment selection to curriculum. The goal for each meeting is to work toward program improvement.

**Describe any changes that have been made to the program as a result of advisory committee activity or suggestions.**

The advisory committee suggested adding FCAW process to the Structural Welding STC.

## Enrollment and Completions

### What are the enrollment trends in the program over the last five years?

#### Number of Students Majoring in Industrial Systems Technology – Welding Technology Fall 2017 – Fall 2021

Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021
47	60	46	35	22

Source: ACCS DAX Student Headcount by Program Report. Retrieved November 1, 2022.

### What are the enrollment trends in the program over the last five years by gender?

#### Number of Students Majoring in Industrial Systems Technology – Welding Technology By Gender Fall 2017 – Fall 2021

	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021
<b>Male</b>	44	53	42	31	18
<b>Female</b>	3	7	4	4	4
<b>Total</b>	<b>47</b>	<b>60</b>	<b>46</b>	<b>35</b>	<b>22</b>

Source: ACCS DAX Student Headcount by Program Report. Retrieved November 1, 2022.

### What are the enrollment trends in the program over the last five years by race/ethnicity?

#### Number of Students Majoring in Industrial Systems Technology – Welding Technology by Race/Ethnicity Fall 2017 – Fall 2021

	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021
<b>African American</b>	-	4	-	-	-
<b>Asian</b>	-	-	-	-	-
<b>Hispanic</b>	8	15	18	5	3
<b>American Indian</b>	-	1	-	-	-
<b>Other</b>	-	-	-	-	-
<b>Two or More Races</b>	-	-	-	3	2
<b>White</b>	39	40	28	27	17
<b>Total</b>	<b>47</b>	<b>60</b>	<b>46</b>	<b>35</b>	<b>22</b>

Source: ACCS DAX Student Headcount by Program Report. Retrieved November 1, 2022.

**What are the total number of enrollments and credit-hour production over the last five academic years?**

**Total Enrollments and Credit Hour Production  
– Welding Technology (WDT) Courses  
AY 2017-2018 through AY 2021-2022**

	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022
<b>Course Enrollment</b>	375	283	242	255	201
<b>CHP</b>	1,125	849	855	765	603

Source: NACC AS400 Database, Retrieved 2021. ACCS DAX Report Credit Hour Trend by Department, Retrieved November 1, 2022.

**What are the course success and retention rates in the program over the last three academic years?\***

**Course Success and Retention Rates  
Welding Technology (WDT) Courses  
Summer, Fall, and Spring Semesters 2019-2022**

	A	B	C	D	F	W	Enrollments	ABC	Success Rate
Summer 2019-Spring 2020	152	38	6	4	1	12	213	196	92.0%
Summer 2020-Spring 2021	141	31	26	7	8	13	226	198	87.6%
Summer 2021-Spring 2022	177	62	22	9	12	22	304	261	85.9%

Source: Office of Institutional Planning and Assessment, NACC Course Success and Retention Rates Reports, 2019-2022.

\*Academic year is represented by summer, fall, and spring semesters.

**What do the data indicate about enrollment and student retention in the program?**

Our enrollment has decreased.

**What are the plans for increasing enrollment and retention rates in the program?**

Attending high school career fairs, career expos, host an annual welding competition and an open house. Develop a presence on various social media platforms.

**How many students have earned a credential in the program in the last five academic years?**

**Degrees and Certificates Conferred in  
Industrial Systems Technology – Welding Technology  
AY 2017-2018 through AY 2021-2022**

<b>Credential</b>	<b>2017-2018</b>	<b>2018-2019</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>
AAS Degree	5	4	16	3	6
Certificate	4	6	7	2	3
Short-Term Certificate	10	45	25	46	29

Source: NACC Argos Report: Graduates by KM. Retrieved November 1, 2022.

**What are the plans for increasing the completion rates in the program?**

Continue to explain the importance of and advantages the AAS degree will afford students later on in their careers.

### Licensure passage rates

<b>Does the program lead to the opportunity for licensure? If so, what are the licensure opportunities?</b>
No.
<b>What are the licensure pass rates, if applicable?</b>
N/A.
<b>Does the program or any coursework in the program lead to any type of industry certification? If so, what are the certifications?</b>
American Welding Society (AWS); National Center For Construction Education And Research (NCCER)
<b>What are the industry certification pass rates, if applicable?</b>



### Job Placement Rates and Employer Satisfaction

**What are the job placement rates for graduates of the program?**

100%

**Is employer satisfaction of graduates assessed? If so, are employers satisfied with graduates of the program? Please describe.**

All that were assessed are positive.

### Student Follow-Up Reports

**Is student satisfaction with the program assessed? If so, are students in the program satisfied with the program? Please describe.**

Student satisfaction with the program is not currently assessed.

Students have provided positive feedback during the last 4 Evaluations of Instruction.

**Is alumni satisfaction with the program assessed? If so, are alumni of the program satisfied with the program? Please describe.**

Not at this time. The Office of Institutional Planning and Assessment is currently revising all Alumni survey components.

## Findings of Review

<p><b>What are the strengths of the program?</b></p> <ul style="list-style-type: none"> <li>• An emphasis on the science of welding in the theory portions of the process studies.</li> <li>• Implementation of experiments to prove theories.</li> <li>• The ability of students to earn Welder Qualification Test Records according to AWS standards for the processes they study</li> <li>• Opportunity to earn an NCCER (National Center for Construction and Education Research) Certification</li> </ul>
<p><b>What are recommendations for improvement?</b></p> <p>Continue to connect with industry to assure program relevance. Utilize the Advisory Committee to assure that the program remains relevant. Remain involved in local, state, and national professional organizations.</p>
<p><b>Please provide any other findings that are pertinent to the review.</b></p> <p>The dwindling workforce has created such a problem for companies that they have been forced to hire welders with no experience. These companies training their workers from scratch has created a recruiting problem for us, for they are looking for the same characteristics in people as we are. On the other hand, the ones who do complete all, or a good portion of our program, according to feedback from industry, seem to shine brightly. Wages are increasing for skilled trades workers due to the simple law of supply and demand. Our students, without a doubt, are benefiting greatly from this nationwide decline in trades people. Wages are soaring, which is a great benefit to them, but it is also a detriment for tech program recruitment (it's hard to compete with money). The pendulum of industry trends in time should swing back, and steady the market. That along with our efforts to find new ways to reach out to and recruit a new generation of students interested in the trades will most certainly result in much larger classes.</p>

### Report Affirmed by:

Signed:	Date:
John Fowler, Welding	<p style="color: red;">Signatures on file in Office of Institutional Planning and Assessment</p>
Signed:	
Kerry Wright, Dean	
Signed:	
Dr. David Campbell	
Signed:	
<b>Kelly Black, Chair of the Curriculum Committee</b>	