



*Alabama Community College System*

*Proposal for a New Program (Associate/Certificate)*

College: Enterprise State Community College

Associate of Applied Science

Associate of Applied Technology

Certificate

1. Date of Proposal Submission: **December 5, 2023**
2. Full Program Name: **Welding (WDT)**
3. Marketing Name:
4. CIP Code: **48.0508**
5. Learning Outcomes and Program Review:

Succinctly list four (4) but not more than seven (7) of the most prominent student learning outcomes of the program.

- a. **Students will be able to perform oxy-fuel cutting techniques.**
  - b. **Students will be able to perform carbon arc cutting (CAC) and plasma arc cutting (PAC) processes.**
  - c. **Students will be able to set up shielded metal arc welding (SMAW) equipment and perform welds using specified electrodes.**
  - d. **Students will achieve a fundamental understanding of welding symbols and print reading.**
6. Employment Outcomes and Program Demand

- a. Indicate the primary industry where graduates would seek employment using the North American Industry Classification System (NAICS): [www.naics.com/search/](http://www.naics.com/search/).

NAICS Code: 333992

- b. Select at least one (1) and up to three (3) Standard Occupational Codes (SOCs) where graduates of the new program would seek employment:  
[www.bls.gov/soc/2018/major\\_groups.htm](http://www.bls.gov/soc/2018/major_groups.htm)

SOC Code 1: **51-4120**\_\_\_\_(Required)

SOC Code 2: \_\_\_\_\_

SOC Code 3: \_\_\_\_\_

- c. Please explain whether further education/training is required for graduates of the proposed program to gain entry-level employment in the occupations selected. **Graduates of the proposed program will be prepared to gain entry-level employment as welders without further training. However, the program will be designed to prepare students for AWS Certification.**
- d. Please describe how you will determine whether graduates are successful in obtaining relevant employment or pursuing further study. **Longer term student outcomes will be developed to track additional postsecondary education and employment data. ESCC employs a career coach who is currently tasked with tracking employment data. This effort will be expanded to the Welding Technology program.**
- e. Briefly describe how the program fulfills a specific industry or employment need for the State of Alabama. Please refer to the State's "In-Demand Occupations List" (<https://ache.edu/Instruction.aspx>) or include local and statewide occupational projections, along with data sources as appropriate. **An Emsi data report is required for this program. The SOC code for this program is listed on the State's "In-Demand Occupations List". A lightcast report for the ESCC service area is included with this report. The report states that the school's region "is a hotspot for this kind of job. The national average for an area this size is 160\* employees, while there are 398 here."**
- f. Briefly describe evidence of student demand for the program, including enrollments in related coursework at your institution if applicable. **To evaluate demand for the program, a survey was created and administered to high school students in the ESCC service area. An identical survey was also distributed to current ESCC students.**
- g. If a survey of student interest was conducted, briefly describe the survey instrument, number and percentage of respondents, and summary of results. **The instrument used for the survey consists of a description of the program and potential careers and salary associated with the field, a question asking whether students would**

consider enrolling, and a Likert scale for students to indicate their level of interest in the program.

The survey was delivered electronically to local high schools. Of the 348 high school students that responded, 144 (41%) indicated that they would consider enrolling in the program, and 43 (12.4%) rated themselves as “extremely interested.” 56 current ESCC students responded to the survey, with 35% indicating interest and 12% reporting extreme interest in the program.

7. Curriculum and Prerequisites

- a. Program Completion Requirements (Enter a credit hour value for all applicable components, write NA if not applicable)

Credit hours required in program courses	<u>48 (AAS &amp; CER)</u>
Credit hours in general education or core curriculum	<u>15 (AAS) &amp; 6 (CER)</u>
Credit hours required in support courses	_____
Credit hours in required or free electives	_____
Credit hours in required research	_____
Total Credit Hours Required for Completion	<u>63 AAS &amp; 54 (CER)</u>
_____	

- b. Please indicate the maximum number of credits that can be transferred in from another institution and applied to the program: **25% of the program must be completed at ESCC. 47 hours may be transferred in for the AAS. 40 hours may be transferred in for the certificate.**
- c. Please describe any work-based learning (WBL) activities that are required or recommended for program completion (including internships, practical/clinical experience, applied research, or other immersive experiences designed to prepare graduates for employment in the field). Definitions and examples of different types of WBL are available at [www.alapprentice.org](http://www.alapprentice.org). **In 2018, several Co-Op courses were added to the ACCS course directory for WDT to support increased WBL. These courses constitute a series wherein the student works on a part-time basis in a job directly related to welding. In these courses, the employer evaluates the student's productivity and the student submits a descriptive report of his work experiences. Upon completion, the student will demonstrate skills learned in an employment setting. Co-op courses are not included in the proposed coursework at this time. However, ESCC recognizes the value of work-based learning and will potentially offer co-op courses or other internship opportunities based upon local business and industry needs.**
- d. Does the program include any options/concentrations? If so, please describe the purpose and rationale for the options, and list the courses for each in the table below. **The program does not include options/concentrations at this time.**

- e. Please complete the table below indicating all coursework for the proposed program, specifying any new courses developed for the program, along with the courses associated with each option as applicable. Include the course number, course title, and number of credits. Coursework listed should total the number of hours required to complete the program.

<b>Course Number and Title</b>	<b>Number of Credit Hours</b>	<b>*If New Course</b>
<b>Program Courses</b>		
WDT 107 SMAW Fillet/OFC/PAC/CAC	3	
WDT 122 SMAW Fillet/OFC Lab	3	
WDT 123 SMAW Fillet/PAC/CAC Lab	3	
WDT 119 Gas Metal Arc/Flux Cored Arc Welding	3	
WDT 120 Shielded Metal Arc Welding Groove	3	
WDT 124 Gas Metal Arc/Flux Cored Arc Welding Lab	3	
WDT 125 Shielded Metal Arc Welding Groove Lab	3	
WDT 217 SMAW Carbon	3	
WDT 228 Gas Tungsten Arc Welding	3	
WDT 257 SMAW Carbon Pipe Lab	3	
WDT 268 Gas Tungsten Arc Welding Lab	3	
WDT 110 Industrial Blueprint Reading	3	
WDT 115 GTAW Carbon Pipe	3	
WDT 155 GTAW Carbon Pipe Lab	3	
WDT 157 Consumable Welding Processes	3	
WDT 219 Welding Inspection & Testing	3	
<b>General Education Courses</b>		
ENG 101 English Composition I OR ENG 131 Applied Writing I (AAS & CER)	3	
ART 100 Art Appreciation OR MUS 101 Music Appreciation (AAS only)	3	
MTH 100 Intermediate College Algebra or Higher, including MTH 116, Mathematical Applications (AAS only)	3	
CIS 146 Computer Applications (AAS & CER)	3	
PSY 200, General Psychology or SOC 200, Introduction to Sociology (AAS only)	3	

f. Intended program duration in semesters for full-time students: \_\_\_\_\_ 4 \_\_\_\_\_

g. Intended program duration in semesters for part-time students: \_\_\_\_\_ 8 \_\_\_\_\_

- h. Please indicate any prior education or work experience required for acceptance into the program. **High School Diploma or GED**
- i. Describe any other special requirements for the program. **None**

7. Specific Rationale (Strengths) for Program

- a. What is the specific rationale for recommending approval of this proposal? List 3-5 potential program strengths:
  - 1. **Provide training in an employable skill to local residents: The purpose of this program is to prepare students for employment in the Welding industry. Certified structural welders, fabricators, and weld technicians are in high demand in Alabama and across the nation.**
  - 2. **Meet the needs of area business and industry**
  - 3. **Offer a geographically feasible option for students in the local community who desire training in Welding Technology and encounter personal, non-academic barriers to education (e.g. transportation, travel expense, child care, etc.)**
- b. Please list any external entities that have supplied letters of support attesting to the program's strengths. Attach support letters with the proposal.
  - Dorsey Trailer**
  - ALFAB, Inc.**
  - Utility Trailer Manufacturing Company**

8. Program Resource Requirements

- a. Faculty
  - 1. Please provide or attach a brief summary of primary and support faculty that includes their qualifications specific to the program proposal. Note: institutions must maintain and have current and additional primary and support faculty curriculum vitae available upon ACHE request for as long as the program is active, but you do not need to submit a CVs with this proposal. **As a new program, ESCC does not currently employ instructors (full-time or part-time) that meet the credentialing requirements for Welding Technology. However, the College is prepared to hire instructors that meet both SACSCOC and ACCS requirements. (Please see #3 below.)**
  - 2. Please provide faculty counts for the proposed programs:

Status	Faculty Type	
	Primary	Support
Current Full-Time		
Current Part-Time		

Additional Full-Time to be hired	<b>1</b>	
Additional Part-Time to be hired	<b>1</b>	

Note: Annual compensation costs for additional faculty to be hired should be included in the NEW ACADEMIC DEGREE PROGRAM SUMMARY table.

3. Briefly describe the qualifications of new faculty to be hired: **The College is prepared to hire instructors that meet both SACSCOC and ACCS requirements. Faculty teaching associate degree courses not designed for transfer to the baccalaureate degree require either a bachelor's degree in the teaching discipline or an associate's degree and demonstrated competencies in the teaching discipline. ACCS policy is based upon SACSCOC guidelines; to illustrate the alignment between SACSCOC guidelines and ACCS policy, Level 0-Group A is included in the ACCS policy which corresponds directly to the SACSCOC credential guideline stating that faculty teaching associate degree courses not designed for transfer to the baccalaureate degree should hold a bachelor's degree in the teaching discipline or an associate degree and demonstrated competencies in the teaching discipline. As a preferred qualification, instructors will hold AWS Certification.**

b. Staff

Will the program require dedicated staff? Yes \_\_\_\_\_ No **X** \_\_\_\_\_

If yes, indicate the number or percentage of FTEs. Salary/benefits costs should be included in the program summary table below.

Note: Annual compensation costs for staff to be hired should be included in the NEW ACADEMIC DEGREE PROGRAM SUMMARY table.

c. Equipment

Will any special equipment be needed specifically for this program?

Yes **X** \_\_\_\_\_ No \_\_\_\_\_

If yes, please list the equipment. These costs should be included in the NEW ACADEMIC DEGREE SUMMARY TABLE. **Although new equipment will ultimately be purchased in order to expand the program, it is not required as part of the start-up cost. Initially, ESCC's automotive program will be located at facilities at which there is pre-existing equipment.**

d. Facilities

Will any new facilities be required specifically for the program?

Yes \_\_\_\_\_ No **X** \_\_\_\_\_

If yes, please list. Only new facilities need to be listed. These costs should be included in the NEW ACADEMIC DEGREE SUMMARY TABLE. **The program will initially be located at existing facilities.**

e. Library

Will additional library resources be required to support the program? **No.**

Please provide a brief description of the current status of the library collections supporting the proposed program.

**The LRC's collection supports all programs by providing resources pertaining to each of the programs that the College offers. This will include Welding Technology. Currently, the LRC's collection includes the Alabama Virtual Library, which provides students, faculty, and staff with access to several reference resources, such as Britannica Academic, Encyclopedia of Alabama, and Funk and Wagnalls New World Encyclopedia. The Alabama Virtual Library also contains 53 distinct databases, such as EBSCOhost, Gale Power Search, and InfoTrac. Many of the databases include full-text articles on myriad topics. Furthermore, the College has purchased a subscription to JSTOR, which provides students, faculty, and staff with access to more than 12 million journal articles, books, images, and primary sources in 75 disciplines.**

If yes, please briefly describe how any deficiencies will be remedied, and include the cost in the NEW ACADEMIC DEGREE SUMMARY TABLE.

f. Assistantships/Fellowships

Will the college offer any assistantships specifically for this program?

Yes \_\_\_\_\_ No **X** \_\_\_\_\_

If yes, how many assistantships will be offered? \_\_\_\_\_

The costs should be included in the NEW ACADEMIC DEGREE SUMMARY TABLE.

**NEW ACADEMIC DEGREE PROGRAM PROPOSAL SUMMARY**

INSTITUTION: Enterprise State Community College

PROGRAM: Welding

Select Level:

Associate

**ESTIMATED \*NEW\* EXPENSES TO IMPLEMENT PROPOSED PROGRAM**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	TOTAL
FACULTY	100000	100000	100000	100000	100000	100000	100000	700000
STAFF	0	0	0	0	0	0	0	0
EQUIPMENT	0	0	0	0	0	0	0	0
FACILITIES	0	0	0	0	0	0	0	0
LIBRARY	0	0	0	0	0	0	0	0
ASSISTANTSHIPS	0	0	0	0	0	0	0	0
OTHER	40000	45000	45000	50000	50000	50000	50000	330000
<b>TOTAL</b>	<b>140000</b>	<b>145000</b>	<b>145000</b>	<b>150000</b>	<b>150000</b>	<b>150000</b>	<b>150000</b>	<b>1030000</b>

**\*NEW\* REVENUES AVAILABLE FOR PROGRAM SUPPORT**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	TOTAL
REALLOCATIONS	86720	43750	28720	18330	2580	0	0	180100
EXTRAMURAL	0	0	0	0	0	0	0	0
TUITION	53280	101250	116280	131670	147420	163530	180000	893430
<b>TOTAL</b>	<b>140000</b>	<b>145000</b>	<b>145000</b>	<b>150000</b>	<b>150000</b>	<b>163530</b>	<b>180000</b>	<b>1073530</b>

**Validation 1:**  
Program revenues exceed or match expenses. **YES**

**ENROLLMENT PROJECTIONS**

Note: "New Enrollment Headcount" is defined as unduplicated counts across years.

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	AVERAGE
FULL-TIME HEADCOUNT	Year 1 - No data reporting required	8	9	10	11	12	13	10.5
PART-TIME HEADCOUNT	Year 1 - No data reporting required	7	8	9	10	11	12	9.5
TOTAL HEADCOUNT	Year 1 - No data reporting required	15	17	19	21	23	25	20
NEW ENROLLMENT HEADCOUNT	Year 1 - No data reporting required	9	10	11	12	13	14	11.5

**Validation 2:**  
Students who graduated the prior year are not included in the total headcount. **OK**

**DEGREE COMPLETION PROJECTIONS**

Note: Do not count Lead "0"s and Lead 0 years in computing the average annual degree completions.

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	AVERAGE
DEGREE COMPLETION PROJECTIONS	Year 1 - No data reporting required	6	7	8	9	10	11	8.5

**Validation 3:** There are enough new students enrolling each year to sustain completions. **YES**

**Validation 4:** Completion projections meet viability standard for this degree level. **MET**

\*New\* entails additional expenses or revenues associated with program implementation. Please include any planning or start-up expenses within Year 1 (even if these were incurred in Year 0 or prior). Do not include expenses or revenues already budgeted for a department or instructional unit prior to the development of this specific program. For instance, if new faculty will be hired to teach in this program, salary/benefits should be included for each year following hire, but salary/benefits for existing faculty would not be included.