



Thaddeus Stevens
College of Technology

Articulation Agreement

between

Thaddeus Stevens College of Technology

and

**Franklin County Career and Technical Center
(FCCTC)
2463 Loop Road Chambersburg Pennsylvania
Welding Technologies**

10/18/2022

Articulation Agreement
Between Thaddeus Stevens College of Technology
Welding Technology
and
Franklin County Career and Technology Center (FCCTC)
2463 Loop Road, Chambersburg, Pennsylvania 17202
10/18/2022

Rationale

Thaddeus Stevens College of Technology (TSCT) articulates with Pennsylvania secondary schools to provide appropriate advanced placement status for qualified students. The agreement assumes that identified high school students have obtained certain college level competencies in the relevant curriculum. Stevens faculty and administration work with the faculty and administration of the collaborating secondary schools to ensure the students both are qualified and receive credit for appropriate college courses in their transition from high school to the college.

This program allows high school students to start working toward an associate degree before they enroll in TSCT. A goal of the Articulation Agreement is to provide a seamless career pathway for Pennsylvania secondary school students to earn an Associate of Applied Science (AAS) degree in their technological field. It is designed to improve the supply of potential employees to fill jobs that have been or will be created or made more technically advanced. An advantage for students who decide to take this educational opportunity is that they are completing courses that are relevant to their career earlier in their educational process. Graduates of the program will enjoy increased career flexibility with their AAS degree.

Term of Agreement

This agreement is adopted beginning on 10/18/2022. The agreement will be reviewed as needed by each institution.

Terms and Conditions

In this agreement, Welding Technology articulates with FCCTC Welding Technology to offer advanced placement status in the Welding Technology to FCCTC students who have achieved college level competencies, through their performance in the Welding Technology at FCCTC.

FCCTC graduates who have successfully completed the specific tasks identified on the tasks grid (Appendix I) and the specified performance measures of the NOCTI will be eligible to receive advanced credit for the following courses at Thaddeus Stevens College of Technology:

Course Number	Course Title	Credits
WELD 120	Shielding Metal Arc Welding I	3
WELD 150	Introduction to Safety	1
WELD 155	Gas metal Arc Welding I	3
WELD 165	Gas Tungsten Arc Welding I	3
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Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

Total Credits: 10

Student Eligibility Guidelines

1. TSCT will award up to 10 credits for WELD 120, WELD 150, WELD 155, and WELD 165 out of the 70 required for the program of study.
 - a. Credit will be awarded upon completion of identified tasks and performance measures by Thaddeus Stevens College of Technology
 - b. Credit will be awarded upon signed verification by FCCTC Caitlin O'Donnell and student of completed tasks and skills identified in the task grid (Appendix I)

Admissions Practices Guidelines

2. Students must have a school GPA of a 2.0 or higher to be considered for admission.
3. Students must submit documentation demonstrating the required knowledge, skills, and competencies in Welding Technologies
4. Students must maintain a minimum grade of 80% in all relevant courses identified in the agreement.
5. After completing FCCTC program and graduation requirements students would be able to apply to TSCT for Welding Technology within a 5 – year period following high school graduation.
6. Students should submit a letter of recommendation as part of the TSCT application from an instructor at FCCTC in the Welding Technologies
7. Students should complete the FAFSA to be eligible for financial aid

Institutional Guidelines

8. TSCT and FCCTC agree that each entity will develop and implement coordinated advertising and promotion to communicate benefits of the articulation agreement.
9. TSCT and FCCTC will ensure the appropriate institutional personnel including but not limited to admissions staff, counselors, career planning officers, career placement officers, administrators, faculty, and staff are aware of and able to support the articulation agreement.
10. In accordance with the Family Educational Rights and Privacy Act (FERPA) TSCT and FCCTC agree to exchange data relevant to the agreement to support the maintenance and improvement of the agreement, enhance the transfer process, promote effective cooperation, and ensure student success.

Authorization of Agreement

This agreement is entered into as of this 10/18/2022 by and between the Thaddeus Stevens College of Technology, Lancaster Pennsylvania, and the Franklin County Career and Technical Center, 2463 Loop Road Chambersburg,, Pennsylvania. The parties have caused this Articulation Agreement to be executed by their duly authorized officers on this date.

Pennsylvania Secondary School Faculty Member



Instructor, Caitlin O'Donnell,
Welding Technologies, FCCTC

Pennsylvania Secondary School Administrator



Terry Miller,
Director, FCCTC

TSCT Faculty Member

Andrea Biesecker,
Welding Instructor,
Welding Technology

TSCT Administrator

Dr. Antonio Jackson, Ed. D,
Vice President of Academic Affairs

This agreement shall prevail until such time as one of the institutions expresses a desire in writing to change the conditions set forth above.

<https://stevenscollege.edu/early-enrollment-reference-form--teacher/>

Unit/ Standard Number	<p style="text-align: center;">High School Graduation Years 2016, 2017 and 2018</p> <p style="text-align: center;">Welding Technology/Welder CIP 48.0508 Task Grid</p>	Proficiency Level Achieved: (X) Indicates Competency Achieved to Industry Proficiency Level
	Secondary Competency Task List	
	OCCUPATIONAL ORIENTATION AND SAFETY	
100	Prepare and mark time or job sheet, reports or records.	
101	Perform housekeeping duties daily.	
102	Follow verbal instructions to complete work assignments and rules.	
103	Follow written instructions to complete work assignments and rules.	
104	Demonstrate proper use and inspection of Personal Protection Equipment (PPE).	
105	Demonstrate proper work area operation.	
106	Demonstrate proper use of ventilation equipment.	
107	Discuss proper Hot Zone operation.	
108	Demonstrate knowledge of proper work actions for working in confined spaces.	
109	Demonstrate knowledge of SDS sheets and precautionary labeling.	
110	Demonstrate proper use and inspection of equipment used for each required welding and thermal cutting process.	
111	Display familiarity with industrial and OSHA safety standards.	
112	Demonstrate knowledge of oxyfuel safety procedures.	
113	Demonstrate knowledge of arc welding safety procedures.	
114	Demonstrate emergency action plan (all inclusive).	
115		
	PRINCIPLES OF WELDING	
200	Identify major types of metals (ferrous and nonferrous) used in welding.	
201	Describe the basic principles of heat, expansion and contraction as it relates to metals.	
202	Select appropriate welding technique, equipment and supplies for a given metal or process.	
203	Describe the industry accepted welding codes, standards and procedures and their use.	
204	Identify various joint designs (joint geometry).	
205	Clean and prepare materials for welding and/or cutting.	
206	Demonstrate proper use of hand tools.	
207	Demonstrate proper use of standard measuring and layout tools.	
208	Demonstrate proper use of power equipment.	
209		

**Welding Technology/Welder
CIP 48.0508
Task Grid**

Unit/ Standard Number		Proficiency Level Achieved: (X) Indicates Competency Achieved to Industry Proficiency Level
300	WELDING, DRAWING, AND WELD SYMBOL INTERPRETATION	
301	Interpret basic elements of a drawing or sketch.	
302	Interpret welding symbol information.	
303	Fabricate parts from a drawing or sketch (class project).	
304	Identify structural metals used in the metal fabrication field.	
305	Demonstrate knowledge of basic metric conversion.	
400	VISUAL EXAMINATION, INSPECTION, AND TESTING	
401	Evaluate cut surfaces and edges of prepared base metal parts for testing.	
402	Identify and evaluate weld discontinuities as per accept/reject criteria.	
403	Demonstrate visual inspection and destructive and non destructive techniques.	
500	SHIELDED METAL ARC WELDING (SMAW)	
501	Perform safety inspections of SMAW equipment and accessories.	
502	Make minor external repairs to SMAW equipment and accessories.	
503	Set up and operate SMAW equipment.	
504	Make fillet welds in all positions.	
505	Make groove welds in all positions.	
506	Pass performance test in all positions.	
507	Perform qualification test.	
600	GAS METAL ARC WELDING (GMAW)	
601	Perform safety inspections of GMAW equipment and accessories.	
602	Make minor external repairs to GMAW equipment and accessories.	
603	Set up and operate GMAW equipment.	
604	Make fillet welds in all positions.	
605	Make groove welds in all positions.	
606	Pass performance test.	

**Welding Technology/Welder
CIP 48.0508
Task Grid**

Proficiency Level Achieved:
(X) Indicates Competency Achieved to Industry Proficiency Level

Unit/ Standard Number		Proficiency Level Achieved: (X) Indicates Competency Achieved to Industry Proficiency Level
700	FLUX CORED ARC WELDING (FCAW)	
701	Perform safety inspections of Flux Cored Arc equipment and accessories.	
702	Make minor external repairs to Flux Cored Arc equipment and accessories.	
703	Set up and operate FCAW equipment.	
704	Make fillet welds in all positions.	
705	Pass performance test.	
706	Demonstrate a groove weld in all positions.	
800	GAS TUNGSTEN ARC WELDING (GTAW)	
801	Perform safety inspections of GTAW equipment and accessories.	
802	Make minor external repairs to GTAW equipment and accessories.	
803	Set up and operate GTAW equipment.	
804	Make fillet welds, in all positions, on ferrous materials.	
805	Pass performance test on ferrous materials.	
806	Set up and operate GTAW on nonferrous materials.	
807	Make fillet welds on nonferrous materials.	
808	Pass performance test on nonferrous materials.	
900	MANUAL OXYFUEL GAS CUTTING (OFC)	
901	Perform safety inspections of OFC equipment and accessories.	
902	Make minor external repairs to OFC equipment and accessories.	
903	Set up for manual OFC operations on steel.	
904	Operate manual OFC equipment.	
905	Perform straight cutting operations on steel.	
906	Perform shape cutting operations on steel.	
907	Perform bevel cutting operations on steel.	
908	Perform piercing operations on steel.	
1000	MECHANIZED OXYFUEL GAS CUTTING (OFC)	

Unit Standard Number	<p style="text-align: center;">High School Graduation Years 2016, 2017 and 2018</p> <p style="text-align: center;">Welding Technology/Welder CIP 48.0508 Task Grid</p>	Proficiency Level Achieved: (X) Indicates Competency Achieved to Industry Proficiency Level
1001	Perform safety inspections of mechanized OFC equipment and accessories.	
1002	Make minor external repairs to mechanized OFC equipment and accessories.	
1003	Set up and operate OFC equipment on steel.	
1004	Perform straight cutting operations on steel.	
1005	Perform bevel cutting operations on steel.	
1100	MANUAL PLASMA ARC CUTTING (PAC)	
1101	Perform safety inspections of PAC equipment and accessories.	
1102	Make minor external repairs to PAC equipment and accessories.	
1103	Set up and operate manual PAC operations on ferrous and nonferrous materials.	
1104	Perform shape cutting operations on ferrous and nonferrous materials.	
1200	MANUAL AIR CARBON ARC CUTTING (CAC-A)	
1201	Perform safety inspections of CAC-A equipment and accessories.	
1202	Make minor external repairs to CAC-A equipment and accessories.	
1203	Set up and operate manual CAC-A gouging and cutting operations on steel.	
1204	Perform gouging and scarfing operations, to remove base and weld metal, on steel.	
1300	BRAZING AND SOLDERING	
1301	Set up and operate silver oxyfuel brazing and silver soldering equipment.	
1302	Perform brazing and silver soldering operations.	