

2022 -2023 ARTICULATION AGREEMENT
between
Triangle Tech and Franklin County Career and Technology Center

In order to provide secondary school students with a continuum of education without unnecessary duplication of instruction or delay in attaining educational/career objectives, Triangle Tech and Franklin County Career and Technology Center have entered into this articulation agreement. Credits will be granted on the basis of the courses listed below:

Franklin County Career and Technology Center 48.0508 Welding Technology/Welder		Triangle Tech Welding and Fabrication Technology			
Course Number	Course Name	Semester	Course Number	Course Name	Semester Credits
200 Principles of Welding		1st	WD 110	Introduction to Arc Welding Processes	3
	201 Identify major types of metals (ferrous and nonferrous) used in welding				15
	202 Describe the basic principles of heat, expansion and contraction as it relates to metals				20
	203 Select appropriate welding technique, equipment and supplies for a given metal or process				15
	204 Describe the industry accepted welding codes, standards and procedures and their use				20
	205 Identify various joint designs (joint geometry)				10
	206 Clean and prepare materials for welding and/or cutting				5
	207 Demonstrate proper use of hand tools				10
	208 Demonstrate proper use of standard measuring and layout tools				15
	209 Demonstrate proper use of power equipment				15
500 Shielded Metal Arc Welding (SMAW)					
	501 Perform safety inspections of SMAW equipment and accessories				20
	502 Make minor external repairs to SMAW equipment and accessories				10
	503 Set up and operate SMAW equipment				20
	504 Make fillet welds in all positions				20
	505 Make groove welds in all positions				20
	506 Pass performance test in all positions				20
	507 Perform qualification test				10
		Total Related Class Hours		245	
100 Occupational Orientation and Safety		1 st	WD 111	Fuel Gas Processes and Industrial Safety	4
	101 Complete time or job sheet, reports or records				2
	102 Perform housekeeping duties daily				4
	103 Follow verbal instructions to complete work assignments and rules				4
	104 Follow written instructions to complete work assignments and rules				5
	105 Inspect and use Personal Protections Equipment (PPE) daily				10
	106 Maintain proper organization and operation of work area				5
	107 Demonstrate proper use of ventilation equipment				4
	108 Discuss proper Hot Work operation				4
	109 Understand proper work actions for working in confined spaces				4
	110 Identify Safety Data Sheets (SDS) and precautionary labeling				4
	111 Inspect welding and thermal cutting equipment for safe operation				20

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112 Display familiarity with industrial and OSHA safety standards	10				
113 Identify oxyfuel safety procedures	8				
114 Identify arc welding/cutting safety procedures	8				
115 Follow emergency action plan (all inclusive)	3				
900 Manual Oxyfuel Gas Cutting (OFC)					
901 Perform safety inspections of OFC equipment and accessories	20				
902 Make minor external repairs to OFC equipment and accessories	10				
903 Set up for manual OFC operations on steel	15				
904 Operate manual OFC equipment	15				
905 Perform straight cutting operations on steel	15				
906 Perform shape cutting operations on steel	15				
907 Perform bevel cutting operations on steel	20				
908 Perform piercing operations on steel	10				
1000 Mechanized Oxyfuel Gas Cutting (OFC)					
1001 Perform safety inspections of mechanized OFC equipment and accessories	10				
1002 Make minor external repairs to mechanized OFC equipment and accessories	5				
1003 Set up and operate OFC equipment on steel	10				
1004 Perform straight cutting operations on steel	5				
Total Related Class Hours		245			
1100 Manual Plasma Arc Cutting (PAC)		1 st	WD115	Plasma Arc Cutting & Templates	1
1101 Perform safety inspections of PAC equipment and accessories	25				
1102 Make minor external repairs to PAC equipment and accessories	2				
1103 Set up and operate manual PAC operations on ferrous and nonferrous materials	25				
1104 Perform shape cutting operations on ferrous and nonferrous materials	25				
1200 Manual Air Carbon Arc Cutting (CAC-A)					
1201 Perform safety inspections of CAC-A equipment and accessories	30				
1202 Make minor external repairs to CAC-A equipment and accessories	30				
1203 Set up and operate manual CAC-A gouging cutting operations and steel	30				
1204 Perform gouging and scarfing operations, to remove base and weld metal, on steel	30				
Total Related Class Hours		195			
600 Gas Metal Arc Welding (GMAW)		2 nd	WD 123	Plate Welding Processes GTAW / GMAW	6.5
601 Perform safety inspections of GMAW equipment and accessories	20				
602 Make minor external repairs to GMAW equipment and accessories	10				
603 Set up and operate GMAW equipment	30				
604 Make fillet welds in all positions	20				
605 Make groove welds in all positions	20				

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606 Pass performance test	20				
800 Gas Tungsten Arc Welding (GTAW)					
801 Perform safety inspections of GTAW equipment and accessories	20				
802 Make minor external repairs to GTAW equipment and accessories	10				
803 Set up and operate GTAW equipment	20				
804 Make fillet welds, in all positions, on ferrous materials	20				
805 Pass performance test on ferrous materials	10				
806 Set up and operate GTAW on nonferrous materials	20				
807 Make fillet welds on nonferrous materials	10				
808 Pass performance test on nonferrous materials	10				
Total Related Class Hours		240			
700 Flux Cored Arc Welding (FCAW)			3 rd	WD 230	Semi-Automatic Arc Welding and Metal Surfacing
701 Perform safety inspections of Flux Cored Arc equipment and accessories	20				
702 Make minor external repairs to Flux Cored Arc equipment and accessories	20				
703 Set up and operate FCAW equipment	20				
704 Make fillet welds in all positions	20				
705 Pass performance test	20				
706 Demonstrate a groove weld in all positions	20				
Total Related Class Hours		120			
Total Instructional Hours		1045		Total Credits Awarded	16.5

Before course credit(s) can be awarded, the following conditions must be fulfilled:

1. Student must meet standard admission criteria of Triangle Tech.
2. Applicant must notify the Admissions Department at Triangle Tech of his/her intention to apply for the grant of credit under this agreement.
3. Application for the grant of credit must be made within one year after coursework at the secondary institution has been completed.
4. Applicants, who desire credit for the above-mentioned courses at Triangle Tech, must have earned a "B" or higher average in the related Franklin County Career and Technology Center courses. Franklin County Career and Technology Center must provide a final transcript of grades, which lists the applicant's earned final grade for each above-mentioned course referenced in this agreement for credit-transfer.
5. In lieu of a letter grade, the applicant will receive a "CR" grade on their Triangle Tech transcript designating that the applicant has received credit for the above-mentioned courses.
6. Upon completion of the application requirements, credit(s) may be granted on a course by course basis and the student will be granted \$497.00 per credit per course toward their tuition at Triangle Tech. (If credit per course price increases, credit per course granted will increase to match.)
7. Applicant should be aware that courses for which credits are granted may have an impact on the overall financial aid resources available to the student, if the total semester credits actually taken after credits are granted fall below 12 credits per semester.

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CLASSROOM PRESENTATIONS

As part of this agreement, Franklin County Career and Technology Center administrators will permit Triangle Tech representatives to conduct classroom presentations to welding classes at Franklin County Career and Technology Center, each year, to promote welding careers and this articulation agreement.

DURATION OF REVIEW

This agreement will take effect upon the affixing of signatures by each of the parties named below.

This Memorandum of Agreement shall be effective from the date of affixing signatures and shall be renewed annually one year from the date of origination. It remains subject to such revisions as are mutually agreeable at the time of annual review, but the duration of the agreement shall be considered continuous. Either party may terminate the agreement at the time of annual review provided the party has given written notice 90 days in advance of intent to do so.

In testimony thereof, witness the duly authorized signatures of the parties hereto:

(1) *Timothy J. McMahon*
Authorized Signature - Triangle Tech

Date: 2/14/2023

Print Name: Timothy J. McMahon

Title: _____

(1) *Terry Miller*
Authorized Signature - Franklin County Career and Technology Center

Date: 2/21/2023

Print Name: Terry Miller

Title: Administrative Director