

2022 – 2023 ARTICULATION AGREEMENT
between
Triangle Tech and Warren County Career 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 Warren County Career Center have entered into this articulation agreement. Credits will be granted on the basis of the courses listed below:

Warren County Career Center 48.0508 Welder/Welding Tech. Welding Technology			Triangle Tech Welding and Fabrication Technology		
Course Number	Course Name	Hours	Semester	Course Number	Semester Credits
200 Principles of Welding			1 st	WD 110 Introduction to Arc Welding Processes	3
	201 Identify major types of metals (ferrous and nonferrous) used in welding	20			
	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	20			
	204 Describe the industry accepted welding codes, standards and procedures and their use	10			
	205 Identify various joint designs (joint geometry)	20			
	206 Clean and prepare materials for welding and/or cutting	4			
	207 Demonstrate proper use of hand tools	2			
	208 Demonstrate proper use of standard measuring and layout tools	2			
	209 Demonstrate proper use of power equipment	2			
500 Shielded Metal Arc Welding (SMAW)					
	501 Perform safety inspections of SMAW equipment and accessories	25			
	502 Make minor external repairs to SMAW equipment and accessories	25			
	503 Set up and operate SMAW equipment	10			
	504 Make fillet welds in all positions	10			
	505 Make groove welds in all positions	40			
	506 Pass performance test in all positions	30			
	507 Perform qualification test	20			
Total Related Class Hours		260			
100 Occupational Orientation and Safety			1 st	WD 111 Fuel Gas Processes and Industrial Safety	4
	101 Prepare and mark time or job sheet, reports or records	2			
	102 Perform housekeeping duties daily	2			
	103 Follow verbal instructions to complete work assignments and rules	3			
	104 Follow written instructions to complete work assignments and rules	3			
	105 Demonstrate proper use and inspection of Personal Protection Equipment (PPE)	4			
	106 Demonstrate proper work area operation	4			
	107 Demonstrate proper use of ventilation equipment	4			
	108 Discuss proper Hot Work operation	4			
	109 Demonstrate knowledge of proper work actions for working in confined spaces	4			

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110 Demonstrate knowledge of Safety Data Sheets (SDS) and precautionary labeling	4				
111 Demonstrate proper use and inspection of equipment used for each required welding and thermal cutting process	4				
112 Display familiarity with industrial and OSHA safety standards	3				
113 Demonstrate knowledge of oxyfuel safety procedures	3				
114 Demonstrate knowledge of arc welding safety procedures	3				
115 Demonstrate emergency action plan (all inclusive)	3				
900 Manual Oxyfuel Gas Cutting (OFC)					
901 Perform safety inspections of OFC equipment and accessories	10				
902 Make minor external repairs to OFC equipment and accessories	5				
903 Set up for manual OFC operations on steel	5				
904 Operate manual OFC equipment	10				
905 Perform straight cutting operations on steel	10				
906 Perform shape cutting operations on steel	10				
907 Perform bevel cutting operations on steel	5				
908 Perform piercing operations on steel	5				
1000 Mechanized Oxyfuel Gas Cutting (OFC)					
1001 Perform safety inspections of mechanized OFC equipment and accessories	5				
1002 Make minor external repairs to mechanized OFC equipment and accessories	10				
1003 Set up and operate OFC equipment on steel	10				
1004 Perform straight cutting operations on steel	15				
1300 Brazing and Soldering					
1301 Set up and operate silver oxyfuel brazing and silver soldering equipment	5				
1302 Perform brazing and silver soldering operations	5				
Total Related Class Hours	160				
1100 Manual Plasma Arc Cutting (PAC)		1 st	WD115	Plasma Arc Cutting & Templates	1
1101 Perform safety inspections of PAC equipment and accessories	20				
1102 Make minor external repairs to PAC equipment and accessories	10				
1103 Set up and operate manual PAC operations on ferrous and nonferrous materials	10				
1104 Perform shape cutting operations on ferrous and nonferrous materials	10				
1200 Manual Air Carbon Arc Cutting (CAC-A)					
1201 Perform safety inspections of CAC-A equipment and accessories	20				
1202 Make minor external repairs to CAC-A equipment and accessories	10				
1203 Set up and operate manual CAC-A gouging cutting operations and steel	10				
1204 Perform gouging and scarfing operations, to remove base and weld metal, on steel	10				
Total Related Class Hours	100				

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600 Gas Metal Arc Welding (GMAW)		2nd	WD 123, Plate Welding Processes GTAW / GMAW	6.5
801 Perform safety inspections of GMAW equipment and accessories	15			
802 Make minor external repairs to GMAW equipment and accessories	15			
803 Setup and operate GMAW equipment	15			
804 Make fillet welds in all positions	60			
805 Make groove welds in all positions	15			
806 Pass performance test	20			
800 Gas Tungsten Arc Welding (GTAW)				
801 Perform safety inspections of GTAW equipment and accessories	10			
802 Make minor external repairs to GTAW equipment and accessories	10			
803 Setup and operate GTAW equipment	5			
804 Make fillet welds, in all positions, on ferrous materials	20			
805 Pass performance test on ferrous materials	20			
806 Setup and operate GTAW on nonferrous materials	10			
807 Make fillet welds on nonferrous materials	25			
808 Pass performance test on nonferrous materials	25			
Total Related Class Hours	265			
700 Flux Cored Arc Welding (FCAW)		3rd	WD 230 Semi-Automatic Arc Welding and Metal Surfacing	2
701 Perform safety inspections of Flux Cored Arc equipment and accessories	15			
702 Make minor external repairs to Flux Cored Arc equipment and accessories	15			
703 Setup and operate FCAW equipment	10			
704 Make fillet welds in all positions	25			
705 Pass performance test	25			
706 Demonstrate a groove weld in all positions	25			
Total Related Class Hours	115			
Total Instructional Hours	900		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 Warren County Career Center courses. Warren County Career 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.

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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.

CLASSROOM PRESENTATIONS

As part of this agreement, Warren County Career Center administrators will permit Triangle Tech representatives to conduct classroom presentations to welding classes at Warren County Career 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) 
Authorized Signature - Triangle Tech

Date: 10/19/22

Print Name: Timothy J. McMahon

Title: President

WARREN COUNTY SCHOOL DISTRICT

Paul J. Mangione Date
President, Board of School Directors

ATTEST:

Ruth A. Huck Date
Secretary, Board of School Directors

WARREN COUNTY CAREER CENTER

Paul J. Mangione Date
President, Board of School Directors

ATTEST:

Ruth A. Huck Date
Secretary, Board of School Directors