

**ARTICULATION AGREEMENT**  
**between**  
**Triangle Tech and Indiana County 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 Indiana County Technology Center have entered into this articulation agreement. Credits will be granted on the basis of the courses listed below:

**Indiana County Technology Center**  
**48.0508 Welding Technology/Welder**

**Triangle Tech**  
**Industrial and Structural Welding**

Course Number	Course Name	Hours	Semester	Course Number	Course Name	Semester Credits
200.0	Principles of Welding		1 <sup>st</sup>	WD110	Introduction to Arc Welding Processes	3.0
	200.201 Identify major types of metals (ferrous and non-ferrous) used in welding.	10				
	200.202 Describe the basic principles of heat expansion and contraction as it relates to metals	9				
	200.206 Clean and prepare materials for welding and/or cutting	8				
500.0	Shielded Metal Arc Welding (SMAW)					
	500.503 Set up and operate SMAW equipment	16				
	500.504 Make fillet welds in all positions	38				
	500.505 Make groove welds in all positions	35				
600.0	Gas Metal Arc Welding (GMAW)					
	600.604 Make fillet welds in all positions (ferrous materials)	25				
	600.605 Make groove welds in all positions (ferrous materials)	25				
800.0	Gas Tungsten Arc Welding (GTAW)					
	800.803 Set up and operate GTAW equipment	6				
	<b>Total Related Class Hours</b>	<b>172</b>				
100.0	Occupational Orientation and Safety		1 <sup>st</sup>	WD111	Fuel Gas	4.0
	100.103 Follow verbal instructions to complete work assignments and rules	5				
	100.104 Follow written instructions to complete work assignments and rules	5				
	100.105 Demonstrate proper use and inspection of Personal Protection Equipment (PPE)	10				
	100.110 Demonstrate knowledge of SDS sheets and precautionary labeling	11				
	100.111 Demonstrate proper use and inspection of equipment used for each required welding and thermal cutting process	5				
	100.112 Display familiarity with industrial and OSHA safety standards	11				
	100.113 Demonstrate knowledge of oxyfuel safety procedures	5				
	100.114 Demonstrate knowledge of arc welding safety procedures	5				
200.0	Principles of Welding					
	200.207 Demonstrate proper use of hand tools	12				
	200.209 Demonstrate proper use of power equipment	15				
900.0	Manual Oxyfuel Gas Cutting (OFC)					
	900.901 Perform safety inspections of OFC equipment and accessories	7				
	900.902 Make minor external repairs to OFC equipment and accessories	7				
	900.903 Set up for manual OFC operations on steel	7				
	900.904 Operate manual OFC equipment	7				
	900.905 Perform straight cutting operations on steel	25				
	900.906 Perform shape cutting operations on steel	17				
	900.908 Perform piercing operations on steel	18				
	<b>Total Related Class Hours</b>	<b>172</b>				

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200.0	Principles of Welding		1 <sup>st</sup>	WD114	Blueprint Reading	3.5
	200.205 Identify various joint designs (joint geometry)	15				
	200.208 Demonstrate proper use of standard measuring and layout tools	16				
300.0	Welding Drawing and Weld Symbol Interpretation					
	300.301 Interpret basic elements of a drawing or sketch	22				
	300.302 Interpret welding symbol information	21				
	300.303 Fabricate parts from a drawing or sketch (class project)	44				
	300.304 Identify structural metals used in the Metal Fabrication field	15				
	<b>Total Related Class Hours</b>	<b>133</b>				
	<b>Total Hours</b>	<b>477</b>			<b>Total Semester Credits</b>	<b>10.5</b>

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 Indiana County Technology Center courses. Indiana County 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 \$482.50 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, Indiana County Technology Center administrators will permit Triangle Tech representatives to conduct classroom presentations to Welding classes at Indiana County 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

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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: 8/30/2021

Print Name: Timothy J. McMahon

Title: President

(1)   
Authorized Signature - Indiana County Technology Center

Date: 8-24-2021

Print Name: MICHAEL McDERMOTT

Title: ADMIN DIRECTOR