2020 – 2021 ARTICULATION AGREEMENT
Between
Triangle Tech and Fayette County Career and Technology Institute

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 Fayette County Career and Technology Institute have entered into this articulation agreement. Credits will be granted on the basis of the courses listed below:

Fayette County Career and Technical Institute 48.0508 Welding Technology/Welder			Triangle Tech Industrial and Structural Welding			
Course Number	**Course Name**	**Hours**	**Semester**	**Course Number**	**Course Name**	**Semester Credits**
200	Principles of Welding		1st	WD110	Introduction to Arc Welding Processes	3.0
	203 Select appropriate welding technique, equipment and supplies for a given metal or process	12.5				
	206 Clean and prepare materials for welding and/or cutting and grind finishing	12.5				
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	20				
	503 Set up and operate SMAW equipment	25				
	Total Related Class Hours	**90**				
1100	Manual Plasma Arc Cutting (PAC)		1st	WD115	Plasma Arc Cutting & Templates	1.0
	1101 Perform safety inspections of PAC equipment and accessories	15				
	1102 Make minor external consumable part(s) repairs to PAC equipment and accessories	20				
	1103 Set up and operate manual PAC operations on ferrous and nonferrous materials	15				
	1104 Perform shape cutting operations on ferrous and nonferrous materials	15				
	1105 Perform straight line cutting operations on ferrous and non-ferrous materials	15				
	Total Related Class Hours	**80**				
	Total Hours	**170**			**Total Semester Credits**	**4.0**

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 Fayette County Career and Technology Institute courses. Fayette County Career and Technology Institute 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 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, Fayette County Career and Technology Institute administrators will permit Triangle Tech representatives to conduct classroom presentations to welding classes at Fayette County Career and Technology Institute, 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) _____ Date: 5/24/21
Authorized Signature - Triangle Tech

Print Name: FT. MUNAHON Title: PRES

(1) Cynthia A Shaw Date: 6-3-21
Authorized Signature – Fayette County Career and Technology Institute

Print Name: Cynthia A. Shaw Title: Director

Welding and Fabrication Technology

ADMISSIONS REQUIREMENTS

1. High School Diploma or G.E.D.

GRADUATION REQUIREMENTS FOR THE ASSOCIATE IN SPECIALIZED TECHNOLOGY DEGREE

1. Satisfactory completion of the required subjects in the prescribed curriculum, or having been granted credit as stated under "Advanced Standing."
2. Attainment of minimum 2.0 Q.P.A. (cumulative).
3. Must meet minimum attendance requirement.
4. Carry no grades of "F".
5. Settlement of all financial obligations to the school.

COURSE OBJECTIVE

This curriculum is designed to present educational experiences by providing theory and laboratory experiments pertaining to Welding and Fabrication Technology.

Emphasis has been placed on plate and pipe welding including TIG, MIG, and Core Wire production processes. Further exploration of welding and fabrication techniques is achieved by study of architectural and structural steel drawings, pipe drawings, shop detailing, and layout work.

The primary objective is to prepare a student for entry-level employment as a welding technician working in light or heavy welding as well as related trades.

In preparation for careers in welding, students will complete three certification exams, which include: the A.W.S. D1.1 certification exam for steel plate and structural shapes; the API 1104 certification for pipelines and related facilities; and the A.S.M.E. Section IX certification exam for pressure vessels and piping systems. Successful completion of these exams qualify graduates of the welding program for employment in jobs that require certified welders. These include work on structural steel systems, tanks and pressure vessels, bridges, heavy equipment, and numerous other manufacturing processes.

PROSPECTIVE STUDENTS

Prospective students should be in good physical condition, have good hand and eye coordination, manual dexterity, and possess good vision. Students should also enjoy working with their hands, be able to tolerate heat, and be patient and imaginative.

No one trains you like TRIANGLE TECH

Welding and Fabrication Technology

COURSE NO.	COURSE	SEMESTER CREDIT HOURS
1ST SEMESTER		
WD110	Introduction to Arc Welding Processes	3
WD111	Fuel Gas Processes and Industrial Safety	4
WD113	Metallurgy and Strength of Materials	2
WD114	Blueprint Reading	3.5
WD115	Plasma Arc Cutting & Templates	1
TR110	Technical Mathematics/Algebra	4.5
	Semester Credit Hour Total	**18**
2ND SEMESTER		
WD122	Structural Steel Detailing, Drawings & Layouts	4.5
WD123	Plate Welding Processes GTAW/GMAW	6.5
WD124	Welding Codes & Procedures	1
TR120	Geometry/Trigonometry	4.5
TR124	Introduction to Computers	1.5
	Semester Credit Hour Total	**18**
3RD SEMESTER		
WD230	Semi-Automatic Arc Welding & Metal Surfacing	2
WD231	AWS D1.1 Structural Steel Welding Certification	5
WD232	Metal Identification - R&D	2.5
WD233	Fabrication Project	3.5
WD234	Process Piping Blueprints and Fittings	5
	Semester Credit Hour Total	**18**
4TH SEMESTER		
WD240	Piping Codes & Welding Techniques-API Standard 1104 Certification	6
WD241	Pipe Welding Processes GMAWP/GTAWP	4
WD242	A.S.M.E. IX Critical Piping Certification	5
WD243	Weld Inspection Fundamentals	2
TR240	Job Communications	1
	Semester Credit Hour Total	**18**
	Total Credit Hours	**72**

Course prerequisites are shown with course descriptions.

"If you want to be a welder, Triangle Tech is the place to go. They teach you everything you need to know. I haven't found anything on the job that they haven't taught me."

Corey Bish
Graduate
Welder
Miller Welding

For more information about our graduation rates, the median debt of students, who completed the program, and other important information, please visit our website at, www.triangle-tech.edu/ConsumerInformation.