

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 Technology Institute

Triangle Tech

47.0201 Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician

Refrigeration, Heating, Ventilation, and Air Conditioning Technology

Course Number	Course Name	Hours	Semester	Course Number	Course Name	Semester Credits
Unit 601	Compare and analyze methods of producing electricity using appropriate terms	5				
Unit 602	Calculate basic electrical quantities using ohm's law	10				
Unit 603	Explain how magnetism is used in different HVAC components.	10				
Unit 604	Identify Safe Electrical Practices.	7				
Unit 606	Demonstrate proper wiring techniques.	15				
Unit 607	Demonstrate electrical testing to include mechanical/electrical relays.	6				
Unit 608	Wire series circuit, parallel circuit, and series/parallel circuit.	5				
Unit 609	Install electric disconnects, circuit breakers and fuses.	10				
Unit 610	Identify and test capacitors.	3.0				
Unit 611	Identify electrical motors and their applications.	5.0				
Unit 612	Identify motor control protection and start devices.	3				
Unit 613	Identify Electrical Codes.	5				
Unit 614	Demonstrate knowledge of transformers and their applications.	3				
	Total Related Class Hours	87				
	Total Hours	87		1 st	RH111 Essentials of Electricity	2.0
					Total Semester Credits	2.0

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 all the related Fayette County Career and Technology Institute courses listed above
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

Refrigeration, Heating, Ventilation and Air Conditioning 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, laboratory experiments and field investigations pertaining to refrigeration, heating, ventilation, and air conditioning systems.

Emphasis has been placed on analysis of refrigerant circuits control systems.

The primary objective is to prepare a student for entry-level employment as a RHVAC technician working in both residential and commercial applications, along with RHVAC engineers, architects, and project managers.

PROSPECTIVE STUDENTS

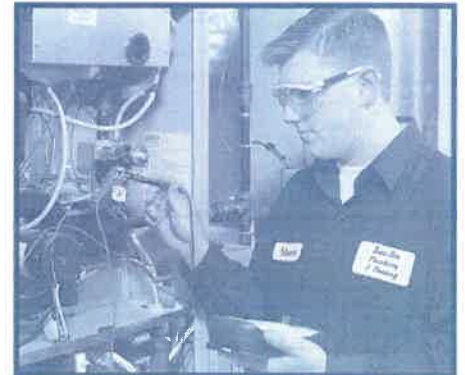
A prospective student should enjoy working with his/her hands as well as sophisticated testing apparatus and digital control devices. The student should be in good physical condition, should be able to lift approximately 50 pounds, and have general math and reading skills.



No one trains you like **TRIANGLE
TECH**

Refrigeration, Heating, Ventilation and Air Conditioning Technology

COURSE NO.	COURSE	SEMESTER CREDIT HOURS
1ST SEMESTER		
RH110	Introduction to Refrigeration Lab/Theory	10
RH111	Essentials of Electricity & Electronics	2
TR110	Technical Mathematics/Algebra	4.5
TR112	Introduction to Computers	1.5
	Semester Credit Hour Total	18
2ND SEMESTER		
RH120	Technical Communications	3
RH121	Commercial Refrigeration Lab/Theory	10
RH122	Introduction to Digital Electronics	2.5
TR122	Trigonometry	2.5
	Semester Credit Hour Total	18
3RD SEMESTER		
RH230	Heating, Ventilation & A/C Lab Theory	8
RH231	Estimating	2
RH232	Sheet Metal Fabrication Layout	3
RH233	Customer Service	2
RH234	Blueprint Reading	1
RH235	Heat Pumps	2
	Semester Credit Hour Total	18
4TH SEMESTER		
RH240	Environmental Controls & Pneumatics	4
RH242	Environmental Engineering	5
RH243	Introduction to Business & Job Communications	3
RH245	Introduction to Transport Refrigeration	2
RH246	Essentials of Direct Digital Controls	4
	Semester Credit Hour Total	18
	Total Credit Hours	72



“The education I got from Triangle Tech will help me grow. My boss is very pleased with the work I’m doing and the ability I’m showing him. He says he has big plans for me.”

Shane Kuehn
Graduate
Bowlin Contracting

Course prerequisites are shown with course descriptions.

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

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