

Articulation Application Form
 College of Applied Technologies
 Residential and Commercial HVAC/R Program
 Enrollment application must be on file for this form to be processed.
Articulation agreement must also be in place.

Section I	
Student Name:	Date:
UNOH Start Date:	UNOH Student Number:
High School/Career Center:	
School Address:	
City/State/ZIP:	
School Phone Number:	Graduation Date from High School:
School Contact Person:	

Section II and course information: To be completed by high school personnel
The above student has demonstrated proficiency by receiving a "B" or better each year in the course content for the course(s) listed below. Please explain how the student received this information EX: worksheets, testing, hands-on tasks etc. <hr/>
This institution is either ASE Education Foundation/NATEF Master or the required UNOH learning outcomes* have been met by the school. Instructor Signature: _____ Date: _____ Administration Signature: _____ Date: _____ I have met the learning outcomes * required for articulation credit. **Student Signature : _____ Date: _____

The below course has been reviewed by the above signatures and is recommended for proficiency credit. Credit will be recorded on the student's transcript showing the credit given for the course.			
Heating, Ventilation, Air-Conditioning and Refrigeration Course Articulation			
UNOH Course Number	UNOH Course Title	H. S. Course/Program Title (As it will appear on transcript)	Final Grade
HV110 (Commercial)	Services and Procedures I (6 credit hours)		

ARTICULATED COURSES, CREDITS AND REQUIREMENTS

Courses & Credits	Requirements
HVAC/R HV110 Service and Procedures I (6 credits)	Graduate of a two-year HVAC/R program with a B or better in both years of HVAC/R courses and meet the learning outcomes.

CATALOG DESCRIPTIONS

Residential Commercial HVAC / R Course:

HV110 SERVICE AND PROCEDURES - I

The fundamentals of refrigeration operation are discussed, including heat transfer, types of heat, and pressure temperature relationships. Also covered are refrigerant, identification, system recovery, leak testing, evacuation, and charging. Other topics include copper tubing, soft solder, and brazing. Students will also learn proper safety procedures, all trade-related tools, and customer relations, along with employability skills.

UNOH Learning Outcomes HV 110 Services and Procedures - I

Students are required to meet the following learning outcomes to receive articulation for HV 110, Service and Procedures – I at the University of Northwestern Ohio.

Knowledge of a basic refrigeration cycle is required. With the ability to draw it, explain its components and understand how it works.

1. Explain Superheat and how to take it.
2. Explain Sub-cooling and how to take it.
3. Understand the pressure temperature chart & how to read it.
4. Basic knowledge of refrigerants and how they react to pressure & temperature.
5. Understand the terms and differences of recovery, recycling, and reclamation as it pertains to refrigerants.
6. Understand refrigeration manifold gauges and how to use them on a unit.
7. Understand refrigeration service valves.
8. Use a recovery machine properly on a refrigeration unit.
9. Evacuate and leak test a refrigeration unit.
10. Properly charge a refrigeration unit.
11. Basic knowledge of hand tools & fasteners.
12. Basic knowledge of shop safety.
13. Braze and solder copper tubing.

Please return this form to:
University of Northwestern Ohio
Attn: Admissions
1441 North Cable Road
Lima, OH 45805