HVAC 47.0201

Objective of Technical Education-

- Upon successful completion of this program, students will be prepared for an entry level HVAC technician position AND to advance their technical education.
- > Students are offered the opportunity to acquire the technical knowledge and skills involved in installing, repairing, trouble shooting, and maintaining heating, ventilation, and refrigeration systems, including oil burners, hot-air furnaces, and heating stoves.
- > Students are offered the opportunity to learn pipe threading, A/C charging, boiler/piping installation, gas installation, blue print reading, AND how to use technical manuals.
- > Students are instructed on how to connect heating or air conditioning equipment to fuel, water, or refrigerant source to form a complete circuit.
- > Students are taught the required safety practices and procedures, AND can earn certifications.

certifications.	
PROGRAM SAFETY REQUIREMENTS	 LADDER SAFETY IMPULSE CONTROL/SELF-CONTROL ABILITY TO REMAIN IN WORK AREA & WITH WORK PARTNER CHEMICAL SAFETY MAINTENANCE OF CLEAN, ORGANIZED, CLUTTER-FREE WORK AREA. SAFETY SHOES, HARD HATS, SAFETY GLASSES, HEAVY WORK BOOTS, SAFETY GLOVES
APTITUDES, ABILITIES/SKILLS	 REASONING IDENTIFY A PROBLEM & FIGURE OUT THE BEST WAY TO SOLVE IT=PROBLEM SOLVING ABILITIES GOOD LISTENING SKILLS COMMUNICATE IN A COOPERATIVE MANNER WHEN SPEAKING WITH CUSTOMERS, COLLEAGUES, EMPLOYERS COMFORTABLE AND ABILITY TO SPEAK BY PHONE WITH CUSTOMERS INDEPENDENCE DEPENDABLE INNOVATIVE PAY CLOSE ATTENTION TO DETAILS PERSISTENCE SELF-CONTROL ABILITY TO RECEIVE, UNDERSTAND INFORMATION, AND APPLY IT TO WORK ON HVAC SYSTEMS, SAFELY.
ACADEMIC SKILLS READING	 TEXT BOOK READING LEVEL 11th GRADE GOOD READING COMPREHENSION SKILLS TEACHER-MADE PRESENTATIONS, ONLINE MATERIALS AND

MATH SCIENCE	RESOURCES ARE USED WRITING SKILLS CALCULATE & ESTIMATE COSTS UNIT OF MEASUREMENT CONVERSIONS UNDERSTANDING OF ALGEBRA I CONCEPTS DEMONSTRATE PROBLEM SOLVING SKILLS READING/STUDYING BLUEPRINTS UNDERSTADNING OF WORD PROCESSIGN SOFTWARE PHYSICS CHEMISTRY
PHYSICAL REQUIREMENTS	 ABILITY TO CROUCH, STRETCH, REACH ACROSS FOR EXTENDED PERIODS OF TIME ABLE TO TOLERATE HEIGHTS AND CLIMB AND REMAIN ON A LADDER FOR EXTENDED PERIODS OF TIME ABLE TO TOLERATE GETTING DIRTY KEEP YOUR ARMS AND HANDS STEADY, AND MAINTAIN A POSITION. ABILITY TO LIFT HEAVY OBJECTS (50 LBS+) PUT TOGETHER SMALL PARTS WITH YOUR FINGERS
SOFT SKILLS	
	 COOPERATE & COMMUNICATE WITH OTHERS ABILITY TO WORK WITH OTHERS TO SHARE IDEAS AND SOLVE PROBLEMS TOGETHER USE TIME WISELY CONDUCT ONESELF MATURELY ACCEPT DIRECTIVES & CONSTRUCTIVE CRITICSM
CLASSROOM ASSIGNMENTS, ASSESSMENTS & TASKS	 CLASSWORK/HOMEWORK TEACHER MADE TESTS/QUIZZES PROJECTS LAB TASK COMPLETION WORK ETHIC/PERFORMANCE TIME CARDS/JOURNALS UNIT CHECKS (VERBAL AND WRITTEN) CERTIFICATION MODULES COMPLETION AND ATTAINMENT NOCTI (END OF 12TH GRADE) BENCHMARK ASSESSMENTS (PRE-NOCTI) TASK LIST- PROGRAM OF STUDY
INDUSTRY CERTIFICATIONS	 OSHA Certification CERTIFICATION CONSTRUCTION 608 EPA CERTIFICATION GAS TITE NOCTI

CCTI Essential Skills Chart Heating, Ventilation, Air Conditioning (HVAC)

	LADDER CERTIFICATION
PROGRAM UNIFORM/COSTS/MATERIAL S	 SAFETY GLASSES (1 PAIR PROVIDED) WORK SHIRT (1 PROVIDED; ADDITIONAL SHIRTS= \$20) JEANS OR WORK PANTS- \$20+ HIGH TOP STEEL TOE WORK BOOTS (\$50+)
ARTICULATION AGREEMENTS	• LCCC
COOPERATIVE OPPORTUNITIES	 BASED ON JOB AVAILABILITY, TEACHER RECOMMENDATION, GRADES OF 77% AND HIGHER, GOOD ATTENDANCE, GOOD BEHAVIOR, DRIVER'S LICENSE AND OWN TRANSPORTATION R.F. OHL ANDREAS PLUMBING
EMPLOYMENT OUTLOOK & PROJECTED SALARY	 OPPORTUNITIES: HVAC MECHANIC, REFRIGERATION MECHANIC, PIPE FITTER, CONSTRUCTION LABORERS, SERVICE TECHNICIAN (40 hour work week minimum= \$48, 630 (annual average medium) Overtime and irregular hours should be expected.
How to find out more?	 https://www.onetonline.org www.carboncti.org https://youtu.be/WLiegCGHUzs https://www.mynextmove.org/profile/summary/49-9021.00 Northampton County Area Community College Lehigh Carbon Community College https://stevenscollege.edu/