

# HVAC DUCTING

Pierce County Careers Connection  
Dual Credit Articulation Agreement

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Upon completion of a full year of high school or equivalent to the following competencies:

- **Use Metalworking Hand Tools and Machines**
    - Hand tools include:
      - Standard bench
      - Measuring, marking, cutting, piercing and joining tools
    - Machines may include
      - Cutting and bending machines
      - Metal forming machines (brakes)
      - Power lock and flange machines
    - Select proper tool or machine for the job
    - Use proper tool or machine in accordance with textual directives for utilization
    - Apply all appropriate OSHA, WISHA and standard shop safety practices
  - Accurately apply procedures for air side, duct sizing and fan law
  - **Perform Basic Layout and Patterning**
    - Use butcher or drafting paper
    - Lay out and pattern common HVAC elbows, branches, and joints
    - Follow required dimensions as specified
  - **Fabricate Common Ducts, Pipes, and Fittings**
    - Include elbows, branches, joints, offsets, transitions, and changes.
    - Completed duct work must be serviceable
    - Dimensions must be such that duct work fits into duct run
- Apply Basic Air Balance and Duct Sizing Fundamentals**
- Demonstrate proper use of ductulator

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A student earning a “C” grade or better may earn college credit at the following college:

<u>College</u>	<u>Course</u>	<u>Credits</u>
Bates Technical College	HVAC 201	4
	HVAC 206	2
	HVAC 207	2
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	HVAC 209	2
	CIP Code: 470201	