Title: HEATING, AIR CONDITIONING, VENTILATION AND REFRIGERATION MAINTENANCE TECHNOLOGY/TECHNICIAN

Code: 47.0201

Career Cluster: Architecture & Construction

<table>
<thead>
<tr>
<th>Certification Required</th>
<th>Certification Method</th>
<th>Occupational Competency Area</th>
<th>Occupational Competency Evaluation</th>
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<tr>
<td>Vocational-Intern/ Instructional 2600</td>
<td>Vocational-Instructional (non-degree program)</td>
<td>Air Conditioning 2010</td>
<td>HVAC Maintenance Technology PA</td>
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</table>

**Description:** An instructional program that prepares individuals to apply technical knowledge and skills to install, repair and maintain commercial and domestic heating, air conditioning and refrigeration systems. Instruction includes theory and application of basic principles involved in conditioning of air (cooling and heating); filtering and controlling humidity; operating characteristics of various units and parts; blueprint reading; use of technical reference manuals; the diagnosis of malfunctions; overhaul, repair and adjustment of units and parts such as pumps, compressors, valves, springs and connections; and repair of electric/electronic and pneumatic control systems.

**Notes:** The following certificates are no longer issued but remain valid for teaching in this program:
- Air Conditioning & Refrigeration 2001
- Heating 2040

Reviewed March 2018