Architecture and Construction: Construction: Air Conditioning, Heating, & Refrigeration Technology

Career Pathway Plan of Study for ▶ Learners ▶ Parents ▶ Counselors ▶ Teachers/Faculty

This Career Pathway Plan of Study (based on the Construction Pathway of the Architecture and Construction Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner’s educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

### EDUCATION LEVELS

<table>
<thead>
<tr>
<th>GRADE</th>
<th>English/Language Arts</th>
<th>Math</th>
<th>Science</th>
<th>Social Studies/Sciences</th>
<th>Other Required Courses</th>
<th>Other Electives</th>
<th>Recommended Electives</th>
<th>Career and Technical Courses and/ or Degree Major Courses for Construction Pathway: Air Conditioning, Heating, and Refrigeration Technology</th>
<th>SAMPLE Occupations Relating to This Pathway</th>
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<tbody>
<tr>
<td>9</td>
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<td></td>
<td>Clear Lake High School</td>
<td>Carpenter</td>
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<td>Code Official</td>
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<td>Construction Engineer</td>
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<td>12</td>
<td>College Placement Assessments-Academic/Career Advisement Provided</td>
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<td>Construction Foreman/Manager</td>
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<td>Articulation/Dual Credit Transferred-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.</td>
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<td>Construction Inspector</td>
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</table>

### Year 13

- **Oral/Interpersonal Communication**
- **College Technical Mathematics 1A**
- **Introduction to Sociology**
- **Keyboarding; Information Resources**
- **Air Conditioning Fundamentals; Basic Mechanical Fundamentals; Heating Systems; Electrical Controls & Systems; HVAC Print Reading; Refrigeration Fundamentals; Principles of AC/DC**

### Year 14

- **Written Communication; Technical Reporting**
- **Energy in Nature, Technology, and Society**
- **Psychology of Human Relations**
- **Sheet Metal Fabrication; Heating System Applications; Hydronic Heating; Refrigeration Applications; Electronic Energy Management; Control Circuit Applications; HVAC Electronic Troubleshooting and Repair (WBL); Heat Load Estimation**

### Year 15

- **WITC has articulation agreements with the following institutions for students who graduate from WITC with an Associate Degree in Air Conditioning, Heating, and Refrigeration Technology. Students should check with the institution they wish to transfer to for specific courses and credits that transfer.**

### Year 16

- **PRIVATE: Bellevue University, Bellevue, Nebraska or Online Program – Capella University, Online Programs – Franklin University, Online Programs – Lakeland College, Sheboygan, WI – Upper Iowa University, Fayette, IA or Online Programs**
- **UW: UW-Stout**
- **Credits may transfer to other institutions. Check with admissions advisors at institutions for specific course and/or credit transfers.**

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