

CERTIFICATE OF ACHIEVEMENT

The Air Conditioning Technology Program is an 18-month course of study that prepares students to install, maintain, service, troubleshoot and repair residential heating and cooling systems. Additionally, this program includes commercial refrigeration, allowing the student to learn how to maintain, troubleshoot and repair walk-in freezers, ice machines, ice cream machines and other related machinery. Instruction includes classroom, laboratory and actual in-the-field hands-on course work.

STUDENT LEARNING OUTCOMES – Graduates of this program will have the opportunity to:

- Perform the basic tasks of a Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) technician in a residential and light commercial environment.
- Read and interpret electrical schematics; troubleshoot and diagnose mechanical and electrical problems using methods and equipment appropriate to this industry.
- Utilize currently accepted EPA rules, techniques, and regulations in the performance of HVAC/R duties; observe proper safety practices when working with high- and low-voltage electricity, and when working with refrigerants under pressure.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

| | CR | SEMESTER |
|--|-----|----------|
| COMMUNICATIONS: ENG 100, 101, 107, 113 | 3-5 | _____ |

SPECIAL PROGRAM REQUIREMENTS (41 Credits):

| | CR | SEMESTER |
|---|----|----------|
| AC 102B Introduction to HVAC Electrical Theory and Application | 5 | _____ |
| AC 103B Introduction to HVAC Mechanical Theory and Application | 5 | _____ |
| AC 106B Residential Gas Heating | 5 | _____ |
| AC 110B Intermediate HVAC Electrical Theory and Application | 5 | _____ |
| AC 111B Heat Pumps | 5 | _____ |
| AC 115B Troubleshooting | 5 | _____ |
| AC 200B Commercial Refrigeration I | 5 | _____ |

Plus 6 credits from the following

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|---|---|-------|
| AC 114B Heat Load and Duct Design | 5 | _____ |
| AC 120B Air Conditioning Duct Work Fabrication | 3 | _____ |
| AC 202B Commercial Refrigeration II | 5 | _____ |
| AC 295B Work Experience I | 6 | _____ |

Computation included in AC 102B

Human Relations included AC 103B

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.