

**SCHOOL OF INDUSTRIAL TECHNOLOGY**  
**Air Conditioning Technology AAS Degree (ACT3)**

*Offered at Clarkesville Campus*

Entrance Dates ..... Fall, Spring, Summer  
 Length of Program ..... 4 Terms  
 Credit Hours Required for Graduation..... 70

**Purpose:** The Air Conditioning Technology Associate of Applied Science degree program prepares students for careers in the air conditioning industry. Learning opportunities develop academic, occupational, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of theory and practical application necessary for successful employment.

**Admission Requirements:**

- Age 16 or older or student with dual/joint enrollment in high school or GED® students seeking access to quality instruction at the postsecondary level
- High school diploma or GED®
- Completion of application process including placement test; or provide SAT or ACT scores

**Program Courses**

**Credits**

<b>General Core Courses</b>	<b>Total 15 credit hours</b>
Area I Language Arts/Communication	3
ENGL 1101 Composition and Rhetoric (required)	
Area II Social/Behavioral Sciences	3
Area III Natural Sciences/Mathematics	3
<b><i>(one of the following required)</i></b>	
MATH 1101 Mathematical Modeling	
MATH 1103 Quantitative Skills and Reasoning	
MATH 1111 College Algebra	
MATH 1127 Introduction to Statistics	
Area IV Humanities/Fine Arts	3
General Education Elective from any area	3

*Contact program advisor for program-specific courses and see General Education Requirements for Associate Degrees for course options.*

**Occupational Courses**

**Total 55 credit hours**

AIRC 1005 Refrigeration Fundamentals	4
AIRC 1010 Refrigeration Principles and Practices	4
AIRC 1020 Refrigeration Systems Components	4
AIRC 1030 HVACR Electrical Fundamentals	4
AIRC 1040 HVACR Electrical Motors	4
AIRC 1050 HVACR Electrical Components and Controls	4
AIRC 1060 Air Conditioning Systems Application and Installation	4
AIRC 1070 Gas Heat	4
AIRC 1080 Heat Pumps and Related Systems	4
AIRC 1090 Troubleshooting Air Conditioning Systems	4
COLL 1010 College and Career Success Skills	3
Occupational Elective	4
Electives	8

Estimated cost of books and supplies for full program is approximately \$800. Additional cost includes EPA, OSHA 10 and other ESCO certification exams - \$175.

*The Air Conditioning Technology program is accredited by HVAC Excellence. P.O. Box 491, Mount Prospect, IL 60056-0521, [www.hvacexcellence.org](http://www.hvacexcellence.org)*

**SCHOOL OF INDUSTRIAL TECHNOLOGY**  
**Air Conditioning Technology Diploma (ACT2)**

*Offered at Clarkesville Campus*

Entrance Dates ..... Fall, Spring, Summer  
 Length of Program ..... 3 Terms  
 Credit Hours Required for Graduation..... 53

**Purpose:** The Air Conditioning Technology diploma program prepares students for careers in the air conditioning industry. Learning opportunities develop academic, occupational, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of air conditioning theory and practical application necessary for successful employment.

**Admission Requirements:**

- Age 16 or older or student with dual/joint enrollment in high school or GED® students seeking access to quality instruction at the postsecondary level
- High school diploma or GED®
- Completion of application process including placement test; or provide SAT or ACT scores

**Program Courses**

**Credits**

**Basic Skills Courses**

**Total 9 credit hours**

COLL	1010	College and Career Success Skills	3
ENGL	1010	Fundamentals of English I	3
MATH	1012	Foundations of Mathematics	3

**Occupational Courses**

**Total 44 credit hours**

AIRC	1005	Refrigeration Fundamentals	4
AIRC	1010	Refrigeration Principles and Practices	4
AIRC	1020	Refrigeration Systems Components	4
AIRC	1030	HVACR Electrical Fundamentals	4
AIRC	1040	HVACR Electrical Motors	4
AIRC	1050	HVACR Electrical Components and Controls	4
AIRC	1060	Air Conditioning Systems Application and Installation	4
AIRC	1070	Gas Heat	4
AIRC	1080	Heat Pumps and Related Systems	4
AIRC	1090	Troubleshooting Air Conditioning Systems	4
		Occupational Elective	4

Estimated cost of books and supplies for full program is approximately \$800. Additional cost includes EPA, OSHA 10 and other ESCO certification exams - \$175.

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**SCHOOL OF INDUSTRIAL TECHNOLOGY**  
**Advanced Commercial Refrigeration Certificate (AC 81)**

*Offered at Clarkesville Campus*

Entrance Dates ..... Fall, Spring, Summer  
 Length of Program ..... 1 Term  
 Credit Hours Required for Graduation ..... 12

**Purpose:** The Advanced Commercial Refrigeration certificate program prepares diploma or degree graduates or air conditioning technicians for careers in the commercial refrigeration air conditioning industry. The program emphasizes a combination of theory and practical application necessary for successful employment.

**Admission Requirements:**

- Age 16 or older or student with dual/joint enrollment in high school or GED® students seeking access to quality instruction at the postsecondary level
- High school diploma or GED®
- Completion of application process including placement test; or provide SAT or ACT scores
- Completion of the Air Conditioning Technology degree or diploma program or three years' experience as an air conditioning technician

<u>Program Courses</u>	<u>Credits</u>
AIRC 2070 Commercial Refrigeration Design	4
AIRC 2080 Commercial Refrigeration Application	4
AIRC 2090 Troubleshooting and Servicing Commercial Refrigeration	4

Estimated cost of books and supplies for full program is approximately \$250.

**Air Conditioning Electrical Technician Certificate (ACK1)**

*Offered at Clarkesville Campus*

Entrance Dates ..... Fall, Spring, Summer  
 Length of Program ..... 1 Term  
 Credit Hours Required for Graduation ..... 12

**Purpose:** The Air Conditioning Electrical Technician certificate program prepares students in the air conditioning area of study to acquire competencies in electricity related to installation, service, and maintenance of electrical systems.

**Admission Requirements:**

- Age 16 or older or student with dual/joint enrollment in high school or GED® students seeking access to quality instruction at the postsecondary level
- High school diploma or GED®
- Completion of application process including placement test; or provide SAT or ACT scores

<u>Program Courses</u>	<u>Credits</u>
AIRC 1030 HVACR Electrical Fundamentals	4
AIRC 1040 HVACR Electrical Motors	4
AIRC 1050 HVACR Electrical Components and Controls	4

Estimated cost of books and supplies for full program is approximately \$250.

**SCHOOL OF INDUSTRIAL TECHNOLOGY**  
**Air Conditioning Technician Assistant Certificate (AZ31)**

*Offered at Clarkesville Campus*

Entrance Dates ..... Fall, Spring, Summer  
 Length of Program ..... 1 Term  
 Credit Hours Required for Graduation..... 12

**Purpose:** The Air Conditioning Technician Assistant certificate program prepares students to hold positions as air conditioning technician assistants or refrigeration technician assistants.

**Admission Requirements:**

- Age 16 or older or student with dual/joint enrollment in high school or GED® students seeking access to quality instruction at the postsecondary level
- High school diploma or GED®
- Completion of application process including placement test; or provide SAT or ACT scores

**Program Courses**

**Credits**

AIRC	1005	Refrigeration Fundamentals	4
AIRC	1010	Refrigeration Principles and Practices	4
AIRC	1020	Refrigeration Systems Components	4

Estimated cost of books and supplies for full program is approximately \$250. Additional cost includes EPA, OSHA 10 and other ESCO certification exams - \$175.

**Heating and Air Conditioning Installation Technician Certificate (HAA1)**

*Offered at Clarkesville Campus*

Entrance Dates ..... Fall, Spring, Summer  
 Length of Program ..... 1 Term  
 Credit Hours Required for Graduation..... 16

**Purpose:** The Heating and Air Conditioning Installation Technician Assistant certificate program prepares for a career in the installation of heating and air conditioning systems. Emphasis is placed on the theory and practical application skills necessary to provide the skills for successful employment.

**Admission Requirements:**

- Age 16 or older or student with dual/joint enrollment in high school or GED® students seeking access to quality instruction at the postsecondary level
- High school diploma or GED®
- Completion of application process including placement test; or provide SAT or ACT scores

**Program Courses**

**Credits**

AIRC	1005	Refrigeration Fundamentals	4
AIRC	1010	Refrigeration Principles and Practices	4
AIRC	1030	HVACR Electrical Fundamentals	4
AIRC	1060	Air Conditioning Systems Application and Installation	4

Estimated cost of books and supplies for full program is approximately \$300.