

PROGRAMS OF STUDY – INDUSTRIAL TECHNOLOGY

Air Conditioning Technology AAS Degree (ACT3)

Offered at the Clarkesville Campus

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

Purpose: The Air Conditioning Technology 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
- High school diploma or GED
- Completion of application process including placement test; or provide SAT or ACT scores less than five years old

Program Courses

Credits

General Core Courses

Total 15 credit hours

Area I	Language Arts/Communication	3
	ENGL 1101 Composition and Rhetoric (<i>required</i>)	
Area II	Social/Behavioral Sciences	3
Area III	Natural Sciences/Mathematics	3
	<i>(one of the following required)</i>	
	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 43 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

Total 4 credit hours

Electives

Total 8 credit hours

Estimated cost of books and supplies for full program is approximately \$850.

*The Air Conditioning Technology program is accredited by
 HVAC Excellence
 P.O. Box 491*

*Mount Prospect, IL 60056-0521
www.hvacexcellence.org*

PROGRAMS OF STUDY – INDUSTRIAL TECHNOLOGY

Air Conditioning Technology Diploma (ACT2)

Offered at the Clarkesville Campus

Entrance Dates Fall, Spring
 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. Program graduates receive an Air Conditioning Technology diploma and have the qualifications of an air conditioning technician. Upon completion of this diploma, graduate will also receive an Air Conditioning Electrical Technician certificate and an Air Conditioning Technician Assistant certificate.

Admission Requirements:

- Age 16 or older
- High school diploma or GED
- Completion of application process including placement test; or provide SAT or ACT scores less than five years old

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 40 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

Total 4 credit hours

Estimated cost of books and supplies for full program is approximately \$600.

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PROGRAMS OF STUDY – INDUSTRIAL TECHNOLOGY

Advanced Commercial Refrigeration Certificate (AC81)

Offered at the 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
- High school diploma or GED
- Completion of application process including placement test; or provide SAT or ACT scores less than five years old
- 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 \$75.

Air Conditioning Electrical Technician Certificate (ACK1)

Offered at the 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
- High school diploma or GED
- Completion of application process including placement test; or provide SAT or ACT scores less than five years old

<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 \$75.

PROGRAMS OF STUDY – INDUSTRIAL TECHNOLOGY

Air Conditioning Technician Assistant Certificate (AZ31)

Offered at the 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
- Completion of application process including placement test; or provide SAT or ACT scores less than five years old

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 \$75.