

CLIMATE CONTROL TECHNICAL TRAINING

One in six new jobs goes to technical workers. Average starting wage for technical workers is \$11 an hour. Air conditioning and heating technicians are experiencing entry level earnings of \$14/hour.

These jobs cannot be done by anyone. They require hard work, determination, knowledge and intelligence.

And as in all professions, success not only yields a sense of professional pride and accomplishment, but considerable financial rewards.



North Iowa Area Community College (NIACC) is a comprehensive public, two-year college offering college transfer, career, and continuing education programs.

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CLIMATE CONTROL PROGRAM OF STUDIES

FIRST TERM

ELT 115	Electronic Concepts.....	3 s.h.
ENG 701	Communications I.....	3 s.h.
HCR 115	Residential Heating Systems.....	4 s.h.
HCR 155	Troubleshooting Heating Systems.....	3 s.h.
MAT 770	Applied Math I.....	2 s.h.
MAT 771	Applied Math II.....	2 s.h.

SECOND TERM

HCR 205	Air Conditioning Principles.....	2 s.h.
HCR 210	Residential Air Cond. Systems.....	4 s.h.
HCR 240	Troubleshooting Air Cond. Systems.....	3 s.h.
PHY 720	Career Physics.....	4 s.h.

THIRD TERM

BCA 101	Introduction to Computers OR.....	3 s.h.
BCA 215	Computer Business Applications.....	3 s.h.
HCR 150	Commercial Heating Systems.....	5 s.h.
HCR 510	Sheet Metal Fabrication.....	2 s.h.
HCR 705	Technical Graphics.....	2 s.h.
HCR 806	Controls I.....	3 s.h.
HCR 807	Controls II.....	3 s.h.

FOURTH TERM

BUS 161	Human Relations.....	3 s.h.
ENG 702	Communications II.....	3 s.h.
HCR 235	Commercial Air Cond. Systems.....	5 s.h.
HCR 923	Systems Design.....	3 s.h.
SDV 135	Job Seeking Skills.....	1 s.h.
SDV 210	Cooperative Education Internship.....	2 s.h.



INDUSTRIAL DIVISION

North Iowa Area Community College
500 College Drive
Mason City, IA 50401

INDUSTRIAL DIVISION

CLIMATE CONTROL

*MECHANICS
AND
TECHNOLOGY*



HEATING AND AIR CONDITIONING



North Iowa Area Community College
www.niacc.edu

CLIMATE CONTROL MECHANICS

Climate Control Mechanics is designed to provide graduates with the basic knowledge and skills necessary for servicing, maintaining and installing residential heating and air conditioning systems.

Completion of this program prepares graduates to enter the Climate Control Technology degree program or to enter the following occupations related to Heating and Air Conditioning.

- Service, Maintenance, and Repair
- Installer of Residential Systems
- Salesperson of Parts and Systems
- Electrical Diagnostics



JOB SECURITY

People are needed in so many areas of the heating and air conditioning industry that it has become one of our country's most stable industries. The supply of trained people has not kept pace with the demand.

Every new public building or complex, which is constructed, requires installation mechanics, qualified service technicians, operating engineers, maintenance foremen, and crew who are trained to keep complex environmental systems operating. New technology and products that require refrigeration or special environments create new demands and new jobs every day.

CLIMATE CONTROL TECHNOLOGY

The Climate Control Technology Program prepares students for entry into light commercial and industrial heating, ventilation, air conditioning and refrigeration.

The program does this by training the students in testing, trouble-shooting, and servicing light, commercial, institutional, and industrial heating, ventilating, and air conditioning systems.

Special emphasis is placed on energy conservation management and control.

The Climate Control Technology Programs prepares graduates for entry into the following occupations.

- Light Commercial/Industrial Heating, Air Conditioning, Refrigeration Service & Repair
- Installation of light commercial and industrial air conditioning systems
- Work in Institutional & Public Buildings
- Sheet Metal Fabrication
- Control applications & Energy Management
- Sales and/or Field Service Representative



For more information

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CLIMATE CONTROL MECHANICS AND TECHNOLOGY

Today's Climate Control (Heating and Air Conditioning) Technician installs, maintains, analyzes, and modifies environmental control systems.

The Climate Control curriculum allows students to choose between completing a program in Climate Control Mechanics, which leads to a diploma with an emphasis in residential heating and air conditioning or a program in Climate Control Technology, which leads to an Associate in Applied Science degree with an emphasis in commercial heating and air conditioning.

WORK ENVIRONMENT



PROGRAM TRAINING

Program training reflects the rapidly expanding industry and its new technologies; not only in providing opportunities for good jobs, but in creating numerous openings for advancement.

The industry encourages personal educational development, and in many cases, it subsidizes continuing education.