



Southwest Texas College

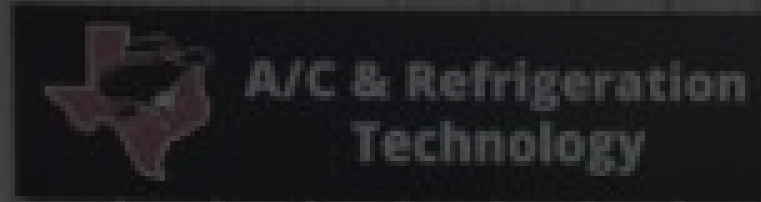
A/C & REFRIGERATION

A/C & REFRIGERATION TECHNOLOGY

Program Overview • Skills • Credentials • Workforce
Pathways

Carlos Lopez, Division Chair, Applied
Sciences

Antonio V. Ruiz, Jr. Program Coordinator/
Instructor Air Conditioning & Refrigeration
Technology



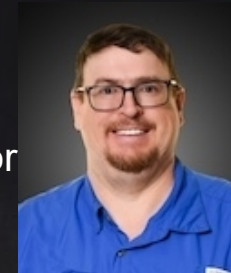
Faculty and Instructional Team



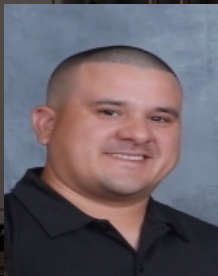
Carlos Lopez
Division Chair



Antonio V. Ruiz, Jr.
Uvalde Instructor/Program Director



Joseph E. Wheeler
Del Rio Instructor Dual Credit



Edward Rodriguez Jr.
Eagle Pass Instructor



Antonio Ruiz, III
Hondo Instructor Dual Credit



Matthew Contreras
Uvalde Instructor

Program Purpose

Focused technical education for students entering a rapidly developing service field.

The A/C and Refrigeration Technology program provides guided learning for students entering residential and light commercial air conditioning, refrigeration, and heating service.

- Learn system operation, installation, diagnostics, and service.
- Practice refrigerant recovery, reclaiming, and recycling.
- Build job-search, résumé, customer-service, and small-business awareness.

Students learn the full service cycle

REFRIGERATION CYCLE

System operation and heat transfer

ELECTRICAL SYSTEMS

Schematics, controls, switches

TOOLS & INSTRUMENTS

Safe use and accurate measurement

REFRIGERANT PRACTICES

Recovery, reclaiming, recycling

INSTALLATION

Residential and light commercial

TROUBLESHOOTING

Electrical and sealed systems

Credentials create multiple entry and advancement points

Students can build from foundational training toward an applied degree and career entry.



Students Can Earn Industry –Recognized ESCO Certifications Will Completing Courses:

- Employment Ready Electrical Certification
- EPA Refrigerant Certification
- A2L Low Flammability Certification
- Heat Pumps Employment Ready Certification

A program built around skill, safety, and opportunity

Guided learning prepares graduates for entry-level residential and light commercial service

3

**Award options:
Basic
Certificate, Advanced
Certificate, and
A.A.S.**

140

**Total HVAC students
served across
traditional and dual
credit pathways**

93

**Traditional
students enrolled
across 3 locations**

47

**Dual credit students
connected through
high school partners**

27

**Total of Advanced
Certificate Students**

Entry-level careers and core skills

Training for residential and light-commercial HVAC/R work.

ENTRY-LEVEL PATHWAYS

HVAC INSTALLER / HELPER

\$40,000

SERVICE TECHNICIAN TRAINEE

\$46,000

REFRIGERATION TECHNICIAN HELPER

FACILITIES MAINTENANCE TECHNICIAN

CONTROLS / BUILDING SYSTEMS ASSISTANT

STARTING PAY/ APPORX. ANNUAL

\$16-\$19/hr/ \$33,000-

\$17-\$22/hr/ \$35,000-

\$16-\$20hr/ \$33,000-\$42,000

\$20-\$24hr/ \$42,000-\$50,000

\$19-\$25/hr/ \$40,000-\$52,000

CORE SKILLS

Work safely with HVAC/R tools

Read wiring diagrams and identify basic faults

Assist with installation and maintenance

Document work and communicate clearly

Questions?

Southwest Texas College A/C & Refrigeration
Technology



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**Thank you for your
support.**