

# CONSTRUCTION TECHNOLOGIES, SKILLS CERTIFICATE

2nd semester		
AC 106	Residential Gas Heating (Certificate)	6
AC 150	Basic Refrigeration Servicing (Certificate)	6
Semester Total		12
Total Units		24

## Heating, Ventilation, Air-Conditioning/Refrigeration (HVAC/R)

The Skill Certificate, Heating, Ventilation, Air-Conditioning/Refrigeration (HVAC/R) will help prepare students for entry-level positions to install, service, or repair air conditioning/heating systems. Students will gain a basic knowledge of electrical systems and components, schematic reading, and troubleshooting techniques in air conditioning/heating.

The skills certificate will prepare students to take the certification exams for: ©HVAC/R Excellence-Electrical and ©HVAC/R Excellence-Heating, Electrical, Air, Technology (H.E.A.T.). Students must pass all courses with a score of 70% or higher.

These courses may not transfer to a baccalaureate degree of art or science within the universities in the Nevada System of Higher Education (NSHE).

## Outcomes

Students completing the certificate will:

- Identify, explain, troubleshoot, repair electrical systems and controls in HVAC/R systems and controls.
- Identify and apply the elements of design techniques in HVAC/R.
- Identify, troubleshoot and repair HVAC/R.

Skills Certificates provide training for entry level positions or career advancement and are designed to prepare students to take state, national and/or industry-recognized certifications or licensing exams. Skills certificates are awarded upon completion of coursework and marked on a student's transcripts at the end of the semester (Student are unable to declare intent to complete a skills certificate.) Skills Certificates are not eligible for Financial Aid.

To earn a skills certificate, students must:

1. Maintain a minimum cumulative GPA of 2.0
2. Have no financial or library obligation to the college

Code	Title	Units
<b>Certificate Requirement</b>		
AC 102	Refrigeration Theory	3
AC 106	Residential Gas Heating	6
AC 107	Electrical and Controls for HVAC	6
AC 113	Schematic Reading for HVAC/R	3
AC 150	Basic Refrigeration Servicing	6
Total Units		24

1st semester		Units
AC 102	Refrigeration Theory (Certificate)	3
AC 107	Electrical and Controls for HVAC (Certificate)	6
AC 113	Schematic Reading for HVAC/R	3
Semester Total		12