

Assessment Impact by Assessment Methods  
 Seward County Community College/Area Tech School  
 Program - HVAC

**Direct**

**Program - HVAC**

**Students will be given blueprint on new house and will perform heat loads and design duct work.**

**Outcome:** Critical Thinking - Design residential and light commercial central heating and air conditioning systems according to load requirements

**Benchmark:** 80% of students will score 70% or higher on the assessment.

**Schedule:** 01/11/2011

Results			
Result	Action	Follow-Up	Action Status
05/17/2013 - 90% of the students scored 70% or higher. <b>Result Type:</b> Benchmark Met			No Action Required
05/17/2012 - Assessment is being researched and re-developed to better determine industry expectations for 2nd year apprentices. Our newly adopted NCCER curriculum will be used along with advisory committee recommendations. <b>Result Type:</b> Benchmark Not Met			Action Plan in Progress
05/23/2011 - 80 % of students scored 70% or higher on the assessment. <b>Result Type:</b> Benchmark Met			Action Plan in Progress

**NCCER (PV) Performance Verifications and NCCER written exam for the following modules:**

1. Introduction to HVAC 03101-07
2. Introduction to Cooling 03107-07
3. Leak Detection, Evacuation, Recovery and Charging 03205-07
4. Troubleshooting Cooling 03203-07

**EPA 608 Exam**

**Outcome:** Install, trouble shoot, and repair - The student will be able to install, trouble shoot and repair at an appropriate level air conditioning and refrigeration equipmen.

**Benchmark:** Meet 100% of the NCCER (PV) Performance Verifications and score a minimum of 70% on the NCCER written exam for the following modules:

1. Introduction to HVAC 03101-07
2. Introduction to Cooling 03107-07
3. Leak Detection, Evacuation, Recovery and Charging 03205-07
4. Troubleshooting Cooling 03203-07

Must pass all 4 parts of the EPA 608 exam with a minimum exam score of 70% on each section.

**Schedule:** NCCER (PV) Performance Verifications and Exams will be completed as an exit point for module completion.

The EPA 608 exam must be completed as an exit point for class AI1041 EPA 608.

**Results**

Results			
Result	Action	Follow-Up	Action Status
05/13/2014 - 100% meet benchmark <b>Result Type:</b> Benchmark Met			Action Complete

**Students will pass lock tags out test and shop test on electric safety.**

**Outcome:** Safe practices and procedures - Exhibit Safety practices and procedures in the shop and on the worksite.

**Benchmark:** Students will score 90% or higher on lock out tag out test on electrical safety

**Schedule:** 8/17/2010

Results			
Result	Action	Follow-Up	Action Status
05/17/2013 - All students scored 90% or higher. <b>Result Type:</b> Benchmark Met			No Action Required
05/17/2012 - 5/17/2012 all students passed the lock-out tag-out test with 90% or higher <b>Result Type:</b> Benchmark Met			Action Complete
05/23/2011 - all students passed lock out tag test with 90% or higher. <b>Result Type:</b> Benchmark Met			Action Plan in Progress

**NCCER (PV) Performance Verifications and NCCER written exam for the following modules:**

**Electrical Fundamentals AI 1004**

**Electrical Controls 1 AI 1013**

**Electical Controls 2 AI 1014**

**Outcome:** Electical evaluation to access knowledge and skill level - The student will be able to understand and repair electical systems associated with HVAC equipment.

**Benchmark:** Meet 100% of the NCCER (PV) Performance Verifications and score 70% or better on the following NCCER written exam:

Electrical Fundamentals AI 1004

Electrical Controls 1 AI 1013

Electical Controls 2 AI 1014

**Schedule:** NCCER (PV) Performance Verifications and Exams will be completed as required for the class enrolled in.

Results			
Result	Action	Follow-Up	Action Status
05/13/2014 - 100% of students met benchmark <b>Result Type:</b> Benchmark Met			Action Complete

**NCCER (PV) Performance Verifications and NCCER written exam for the following modules:**

**1. Introduction to Heating 03108-07**

**2. Ferrous Metal Piping Practices 03105-07**

**3. Chimneys, Vents and Flues 03202-07**

**4. Troubleshooting Gas Heating 03209-07**

**5. Introduction to Hydronics 03203-07**

**Outcome:** Heating equipment evaluation to assess knowledge and skill - The student will be able to install, troubleshoot, and repair at an apprentice level gas appliances, vents, and residential hydronic systems.

**Benchmark:** Meet 100% of the NCCER (PV) Performance Verifications and score a minimum of 70% on the NCCER written exam for the following modules:

1. Introduction to Heating 03108-07
2. Ferrous Metal Piping Practices 03105-07
3. Chimneys, Vents and Flues 03202-07
4. Troubleshooting Gas Heating 03209-07
5. Introduction to Hydronics 03203-07

**Schedule:** NCCER (PV) Performance Verifications and Exams will be completed as an exit point for module completion.

Results			
Result	Action	Follow-Up	Action Status
05/13/2014 - 100% of students met benchmark <b>Result Type:</b> Benchmark Met			Action Complete

**NCCER (PV) Performance Verifications and NCCER written exam for the following modules:**

**1. Basic Safety 00101-09**

**Outcome:** Workplace safety evaluation to assess knowledge and skill level - The student will be able to work in the HVAC Industry in a safe and responsible manner.

**Benchmark:** Meet 100% of the NCCER (PV) Performance Verifications and score 100% on the NCCER written exam for the following modules:

1. Basic Safety 00101-09

**Schedule:** NCCER (PV) Performance Verifications and Exams will be completed as an exit point for module completion.

Results			
Result	Action	Follow-Up	Action Status
05/13/2014 - 100% of students met benchmark <b>Result Type:</b> Benchmark Met			Action Complete

**Indirect**

**Program - HVAC**

**Students who began on a job training with employers a survey will be done by the employer about the students performance.**

**Outcome:** Professionalism - Demonstrate professionalism and related workplace skills.

**Benchmark:** 75% of students should meet or exceed expectation

**Schedule:** Schedule Start Date: 5/1/2010  
Schedule End Date: 5/21/2010

Results			
Result	Action	Follow-Up	Action Status
05/17/2013 - 90% of students met employer expectations. <b>Result Type:</b> Benchmark Met			No Action Required
05/17/2012 - 80% of students met with employer satisfaction concerning professionalism. However, the assessment tool for employer feedback of workplace skills is being			Action Plan in Progress

Results			
Result	Action	Follow-Up	Action Status
developed. The new assessment tool should help better define expectations and the areas that need improvement. <b>Result Type:</b> Benchmark Not Met			
01/13/2011 - This is how this result tool works. <b>Result Type:</b> Benchmark Met			Action Plan in Progress

**Graduate follow-up survey**  
**Employer follow-up survey**

**Outcome:** Install, trouble shoot, and repair - The student will be able to install, trouble shoot and repair at an appropriate level air conditioning and refrigeration equipmen.

**Benchmark:** Graduate follow-up survey - 80% of the ratings are positive  
Employer follow-up survey - 80% of the ratings are positive

**Schedule:** Graduate follow-up survey - Annually in November  
Employer follow-up survey - Annually in October

Results			
Result	Action	Follow-Up	Action Status
No Results reported.			

**Graduate follow-up survey**  
**Employer follow-up survey**

**Outcome:** Electical evaluation to access knowledge and skill level - The student will be able to understand and repair electical systems associated with HVAC equipment.

**Benchmark:** Graduate follow-up survey - 80% of the ratings are positive  
Employer follow-up survey - 80% of the ratings are positive

**Schedule:** Graduate follow-up survey - Annually in November  
Employer follow-up survey - Annually in October

Results			
Result	Action	Follow-Up	Action Status
No Results reported.			

**Graduate follow-up survey**  
**Employer follow-up survey**

**Outcome:** Heating equipment evaluation to assess knowledge and skill - The student will be able to install, troubleshoot, and repair at an apprenice level gas appliances, vents, and residential hydronic systems.

**Benchmark:** Graduate follow-up survey - 80% of the ratings are positive  
Employer follow-up survey - 80% of the ratings are positive

**Schedule:** Graduate follow-up survey - Annually in November  
Employer follow-up survey - Annually in October

Results			
Result	Action	Follow-Up	Action Status
No Results reported.			

**Graduate follow-up survey**  
**Employer follow-up survey**

**Outcome:** Workplace safety evaluation to assess knowledge and skill level - The student will be able to work in the HVAC Industry in a safe and responsible manner.

**Benchmark:** Graduate follow-up survey - 80% of the ratings are positive  
Employer follow-up survey - 80% of the ratings are positive

**Schedule:** Graduate follow-up survey - Annually in November  
Employer follow-up survey - Annually in October

<b>Results</b>			
<b>Result</b>	<b>Action</b>	<b>Follow-Up</b>	<b>Action Status</b>
<b>No Results reported.</b>			

**No Assessment Method Category specified.**

**No Assessment Tools reported for this Assessment Method Category**