

Assessment: Assessment Unit Four Column

Program - HVAC

Mission Statement: The HVAC-R program at Seward County Community College is designed to teach the appropriate skills needed for this field. Students train with state-of-the-art equipment and learn techniques to diagnose, repair, and install commercial and residential refrigeration and furnace systems.

<i>Outcomes</i>	<i>Assessment Tools</i>	<i>Results</i>	<i>Actions</i>
Technical Skills - Project/Internship (Workplace Skills - Inst. Outcome 9) - Students will successfully complete a capstone independent project or an internship. Outcome Status: Active Outcome Type: Curricular Start Date: 08/18/2015	Direct - Independent project assignment Benchmark: 90% of students will score 80% or above. Schedule: Spring semesters	Action Status: Action Complete Result Type: Benchmark Met 100 % of students have successfully completed an independent project and internship. (05/11/2022)	
		Action Status: Action Complete Result Type: Benchmark Met 98% of students have successfully completed independent projects with an 80% or better (04/29/2021)	
		Action Status: Action Complete Result Type: Benchmark Met 95% of students scored 80% or above (05/15/2019)	
	Direct - Internship employer assessment survey Benchmark: 90% of students will score 80% or higher on the employer completed survey. Schedule: Spring semester	Action Status: No Action Required Result Type: Inconclusive Due to shift from 2 to 3 semesters students will not complete independent project until the fall semester (05/10/2018)	
		Action Status: Action Complete Result Type: Benchmark Met 95% of students scored 80% or higher (05/12/2016)	
		Action Status: No Action Required Result Type: Inconclusive survey not valid method of assessment (05/11/2022)	
		Action Status: Action Complete Result Type: Benchmark Met 95% of students successfully completed projects/internships with 80% or higher (04/29/2021)	
		Action Status: Action Plan in Progress	

Outcomes	Assessment Tools	Results	Actions
		Result Type: Inconclusive No Employer feedback (05/15/2019)	
		Action Status: No Action Required Result Type: Inconclusive Due to shift from 2 to 3 semester students have not completed internship (05/10/2018)	
		Action Status: Action Complete Result Type: Benchmark Met 100% satisfied (05/17/2017)	
		Action Status: Action Complete Result Type: Benchmark Met 95% of students scored 80% or higher (05/12/2016)	
Mathematical Career Literacy (Mathematical Skills - Inst. Outcome 4) - Students will demonstrate comprehension of basic technical math functions. Outcome Status: Active Outcome Type: Curricular Start Date: 08/18/2015	Direct - NCCER Trade Math Exam Benchmark: 90% of students will score 70% or higher on the exam. Schedule: Spring	Action Status: Action Complete Result Type: Benchmark Met 100% of students tested met the benchmark (05/11/2022)	
		Action Status: Action Plan in Progress Result Type: Benchmark Not Met 70% of students scored 70% or higher/ Technical math classes to begin fall 2021 (04/29/2021)	
		Action Status: Action Complete Result Type: Benchmark Met 100% of students scored 70% or higher on exam (05/15/2019)	
		Action Status: Action Complete Result Type: Benchmark Met Exam was taken in the Fall semester, 93% of students who took exam scored a 70% or higher on exam (05/10/2018)	
		Action Status: Action Complete Result Type: Benchmark Met 100% of students achieved 70% or better on exam (05/17/2017)	
		Action Status: Action Complete Result Type: Benchmark Met 95% scored 70% or higher (05/12/2016)	
	Direct - WorkReady Electrical Exam theory section*	Action Status: Action Complete Result Type: Benchmark Met 100% of students tested met the benchmark (05/11/2022)	
		Action Status: Action Complete	

Outcomes	Assessment Tools	Results	Actions
	*Capstone Requirement (Career Literacy) Benchmark: 90% of students will score 70% or higher on the exam. Schedule: Spring Semester	Result Type: Benchmark Met 90 % Of students successfully completed the work ready electrical with 70% or higher (04/29/2021) <hr/> Action Status: Action Complete Result Type: Benchmark Met 100% of students scored 70% or higher on exam (05/15/2019) <hr/> Action Status: Action Complete Result Type: Benchmark Met 100% of students achieved 70% or better on the work ready exam (05/10/2018) <hr/> Action Status: Action Complete Result Type: Benchmark Met 95% of students scored 70% or better on exam (05/17/2017) <hr/> Action Status: Action Complete Result Type: Benchmark Met 95% scored 70% or higher (05/12/2016)	
Career Literacy - NATE/EPA (Reading with Comprehension - Inst. Outcome 1) - Students will successfully complete the NATE Ready to Work Exam and EPA 600 Refrigerant Handling Certification. Outcome Status: Active Outcome Type: Curricular Start Date: 08/18/2015	Direct - North American Technician Excellence Ready to Work HVAC Assessment.* *Capstone Requirement: Career Literacy Benchmark: 90% of students will score at a 70% or higher. Schedule: Fall semester	Action Status: Action Plan in Progress Result Type: Benchmark Met NATE exam is not a valid tool at this level - exam has been replaced by the HVAC excellence work ready exams (electrical, A/C. Gas heat) 100% of students tested on the work ready exams met the benchmark (05/11/2022) <hr/> Action Status: No Action Required Result Type: Inconclusive Not Applicable We do not test for NATE EPA 600 Refrigerant Handling Certification (04/29/2021) <hr/> Action Status: Action Plan in Progress Result Type: Inconclusive Nate exam not being used has been replaced with HVAC Excellence work ready exams (05/15/2019) <hr/> Action Status: Action Plan in Progress Result Type: Directional Improvement Exam needs to be re -evaluated. (05/10/2018) <hr/> Action Status: Action Plan in Progress Result Type: Benchmark Not Met	

Outcomes	Assessment Tools	Results	Actions
		Exam no longer viable, looking at replacement (05/17/2017)	
	Direct - EPA 608 Refrigerant Handling Exam Benchmark: 90% of students will score 70% or higher on the exam. Schedule: Fall Semester	Action Status: Action Complete Result Type: Benchmark Met 100% of students scored at 70% (05/12/2016) Action Status: Action Complete Result Type: Benchmark Met 100% of students tested met the benchmark (05/11/2022)	
		Action Status: Action Complete Result Type: Benchmark Met 95% students successfully completed EPA with a 70 or better (04/29/2021)	
		Action Status: Action Complete Result Type: Benchmark Met 95% of students scored 70% or higher on exam (05/15/2019)	
		Action Status: Action Complete Result Type: Benchmark Met 90% of students scored 70% or higher on EPA 608 (05/10/2018)	
		Action Status: Action Complete Result Type: Benchmark Met 100% scored at 70% or higher (05/12/2016)	
Construction Math Skills - Students will demonstrate pre-apprenticeship level math skills Outcome Status: Active	Direct - NCCER Core Curriculum Construction Math Exam Benchmark: 80% of students will pass the NCCER Core Curriculum Construction Math Exam with 70% or better Schedule: Fall and Spring Trade Basics (ID1104)	Action Status: Action Complete Result Type: Benchmark Met 100% of students met the benchmark (05/11/2022) Action Status: Action Complete Result Type: Benchmark Met 82 % of students passed math exam with 70% or better (04/29/2021) Action Status: Action Complete Result Type: Benchmark Met 100% of students scored 70% or better on exam (05/15/2019) Action Status: Action Complete Result Type: Benchmark Met 98% of students who took the NCCER Core Construction Math Exam scored a 70% or better (05/10/2018)	

Outcomes	Assessment Tools	Results	Actions
	Indirect - Employer and/or Employee (former student) Survey Benchmark: 90% of employers will rate former students as satisfactory or better in math skills. 90% of employees (former students) will rate themselves as satisfactory or better in on-the-job math skills. Schedule: Fall and Spring Trade Basics (ID1104)	Action Status: Action Plan in Progress Result Type: Inconclusive Survey not a valid assessment tool (05/11/2022)	
		Action Status: Action Complete Result Type: Benchmark Met 70 % of students rated themselves as satisfactory or better (04/29/2021)	
		Action Status: Action Plan in Progress Result Type: Inconclusive no employer feedback (05/15/2019)	
		Action Status: Action Complete Result Type: Benchmark Met Benchmark Met - Working to develop formal survey (05/10/2018)	
Read with Comprehension OSHA 10 - Students will demonstrate the ability to read and comprehend safety instructions. Outcome Status: Active Outcome Type: Curricular	Direct - OSHA 10 CareerSafe Program Benchmark: 95% of all students will pass all modules in the OSHA 10 CareerSafe program with 70% or above. Schedule: Fall ID1001	Action Status: Action Complete Result Type: Benchmark Met 100% of students met the benchmark (05/11/2022)	
		Action Status: Action Complete Result Type: Benchmark Met 98% of students completed OSHA with a 70% or higher (04/29/2021)	
		Action Status: Action Complete Result Type: Benchmark Met 100% of students scored 70% or better on career safe OSHA 10modules (05/15/2019)	
		Action Status: No Action Required Result Type: Inconclusive No data to report - OSHA 10 Career-safe Program will be implemented Fall '18 (05/10/2018)	
	Indirect - Employer and/or Employee (former student) Survey Benchmark: 90% of employers will rate former students as satisfactory or better in reading skills. 90% of employees (former students) will rate themselves as satisfactory or better in on-the-job reading skills. Schedule: Fall ID1001	Action Status: Action Plan in Progress Result Type: Inconclusive Survey not a valid assessment tool - looking for other options (05/11/2022)	
		Action Status: Action Complete Result Type: Benchmark Met 96% of the students have successfully completed OSHA (04/21/2021)	
		Action Status: Action Plan in Progress	

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		Result Type: Inconclusive no feedback obtained (05/15/2019)	
		Action Status: Action Plan in Progress Result Type: Directional Improvement met objectives, Action plan to develop survey (05/10/2018)	
Read with Comprehension EPA 608 - Students will demonstrate the ability to read and comprehend refrigerant handling safety instructions. Outcome Status: Active Outcome Type: Curricular	Direct - EPA 608 refrigerant handling certification exam Benchmark: 80% of students will pass the EPA 608 Exam with 70% or better Schedule: Fall AI1041	Action Status: Action Complete Result Type: Benchmark Met 87% of students met the benchmark (05/11/2022)	
		Action Status: Action Complete Result Type: Benchmark Met 95% of students have successfully completed the EPA with 70% and above (04/21/2021)	
		Action Status: Action Complete Result Type: Benchmark Met 95% of students completed the EPA 608 exam with 70% or better score (05/15/2019)	
		Action Status: Action Complete Result Type: Benchmark Met 90% of students passed the EPA 608 Exam with 70% or better (05/10/2018)	
		Action Status: Action Plan in Progress Result Type: Inconclusive Survey not valid - looking for other assessment methods (05/11/2022)	
		Action Status: Action Complete Result Type: Benchmark Met 95% of students successfully completed the EPA with a 70% or higher (04/21/2021)	
	Indirect - Employer and/or Employee (former student) Survey Benchmark: 90% of employers will rate former students as satisfactory or better in industrial plant operations 90% of employees (former students) will rate themselves as satisfactory or better in industrial plant operations Schedule: Fall AI1041	Action Status: Action Complete Result Type: Benchmark Met 95% of students rate themselves as having satisfactory skills (05/15/2019)	
		Action Status: No Action Required Result Type: Benchmark Met 90% of employers will rate former students as satisfactory or better in industrial plant operations 90% of employees (former students) will rate themselves as	

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		satisfactory or better in industrial plant operations (05/10/2018)	