

PROGRAM INFORMATION	Program	Heating and Cooling Technology
	Submitted by:	Jason Juhnke
	Year	2021-2022
	Date of Review	2022-01-07
	Form Key	fc69528e-8e06-42f1-8efd-f5a62c9844ee
PROGRAM OUTCOMES	Explain how program outcomes were reviewed this year (i.e., input from advisory board, instructors, students, etc.) and changes made, if any:	Instructors update there outcomes during the fall and spring syllabus design each semester and our advisory board reviews courses two time a year.
	Outcomes are up to date in WIDS and on the program's web page	Yes
SYLLABI	ADA Statement	Yes
	Competencies	Yes
	Course Description	Yes
	Course Title and Number	Yes
	Credit Hours	Yes
	Freedom of Expression Statement	Yes
	Grading Criteria	Yes
	Instructor	Yes
	Academic Integrity Policy	Yes
	Nondiscrimination Statement	Yes
	Office Hours/Contact Information	Yes
	Prerequisites	Yes
	Required Text(s)	Yes
	Syllabi Up to Date in WIDS	Yes
Explain which syllabi were reviewed this year; input received from advisory board, instructors, students, etc. regarding course objectives and textbooks used; and changes made, if any.	HV-132 and HV-152 syllabus were reviewed, Jason will be teaching HV-132 and asked the board to see what was listed in the course schedule still good to teach or if there was more to teach or other topis's for that course. Textbooks will remain the same with E-books with Cengage.. HV-152 has no changes to the syllabus, Recovery ,Charging, Troubleshooting will be covered more over this course.	
PROGRAM COMPETENCIES	Explain how competencies were reviewed this year (i.e., input from advisory board, instructors, students, etc.) and changes made, if any:	Every Fall and Spring advisory board meetings, the board review them on the selected courses from the instructors. Not changes at this time.
	WIDS Up to Date	Yes
COURSE ASSESSMENTS USED IN PROGRAM CHECKLIST	Capstone	Yes
	Class Participation	Yes
	Clinical/internship observations	Yes
	Examinations	Yes
	Comprehensive Final Exams	Yes
	Journals	No
	Lab Demonstrations	Yes
	Oral Examinations/Presentations	Yes
	Other Projects	Yes
	Peer Evaluatioins	No
	Portfolio Projects	No
	Quizzes	Yes
	Self Evaluations	No
	Simulations	Yes
	Videos of Student Mastery	No
Written Essays	Yes	
Written Reports	Yes	
ALIGNED AND APPROPRIATE ASSESSMENTS	Assessments used in the program are matched to the outcomes/competencies for the program.	Yes
	Give examples of how assessments used in the program reflect higher-level thinking skills, such as applications, analysis, synthesis, and evaluation.	After completing course competencies, the students are tested on trainers that have faults built into them and they are assess by time and there performance on there outcomes.

	Explain changes in the assessments used in your program since your last review (include input received and rationale)	We have added a roof trainer to the Lab to show and have students improve their knowledge of install roof vent flashings and roof safety. Also adding more mini-split trainers to teach students more on VRF installation.
INDUSTRY CERTIFICATIONS	Explain any changes made or planned in the program based on assessment of industry certifications used in the program.	Students will be tested on A2L Refrigerant/Safety. In Electrical and Air conditioning, those courses need to review more over the units and have a better understanding of their topics.
INTERNSHIPS/CLINICALS	How do you evaluate program competencies or learning objectives during internship/externship experiences?	Employee's complete evaluation for each student. Weekly students report on-site, On MyTech students log their time and outcomes. Instructors also do on-site visits to visit with students supervisor.
	Do you reviewed results of internship/externship evaluations, what curriculum changes were made or are planned in your program?	The internship evaluation form has been reviewed during a few site visits and some changes will be made before summer 2022 semester.
ENROLLMENT	Does the most recent year's data meet this benchmark? If not, explain a single-year anomaly or explain what strategies your program will implement to address a pattern (two or more years) of not reaching this benchmark.	Did not reach the benchmark- 11 students from a cap of 24= 46%. Instructors have been working with enrollment and doing more high school visits and career fairs.
RETENTION	Does the most recent year's data meet this benchmark? If not, explain a single-year anomaly or explain what strategies your program will implement to address a pattern (two or more years) of not reaching this benchmark.	Met the Benchmark at 95% Retention
GRADUATION	Does the most recent year's data meet this benchmark? If not, explain a single-year anomaly or explain what strategies your program will implement to address a pattern (two or more years) of not reaching this benchmark.	Met the Benchmark at 90% Graduation rate.
PLACEMENT	Does the most recent year's data meet this benchmark? If not, explain a single-year anomaly or explain what strategies your program will implement to address a pattern (two or more years) of not reaching this benchmark.	Met the Benchmark-100% Placement
STUDENT SATISFACTION	If this benchmark is not met, what strategy or strategies will be implemented to address this measure?	We met the benchmark
ALUMNI SATISFACTION	If this benchmark is not met, what strategy or strategies will be implemented to address this measure?	100% Satisfied.
EMPLOYER SATISFACTION	If this benchmark is not met, what strategy or strategies will be implemented to address this measure?	87.5%- Met the Benchmark- Employer were pleased with the outcomes.
PROFESSIONAL DEVELOPMENT	What professional development activities have instructors in this program completed in the last year?	Instructors from the program have attended ASHRAE Meetings, RSES Webinars, and HVAC Excellence Educators conferences. Each Semester MTC does in-service training as well.

	How were these activities used to improve this program?	Instructors were taught new skills on all levels of the HVAC/R and Teaching Knowledge's They were taught from new industry standards and equipment.
PROFESSIONAL ORGANIZATIONS	Do faculty members belong to professional organizations associated with this program?	Yes
	If no, explain why.	
	Are students made aware of the professional organizations for their career field?	Yes
All	What changes were or will be made to this program based on feedback provided at the past year's advisory board meeting(s)?	To teach more basic topic's and also to teach more troubleshooting over furnaces, air conditioners in the labs.
	Implementation Date	2022-01-07
	Indicate the personnel responsible for implementing the change(s):	Jason Juhnke
PROGRAM IMPROVEMENT PLANS AND BUDGET	As you review this past year, what changes do you propose for the next school year that will affect the program's budget?	Would like to add a few more new trainers to our lab to help teach more geothermal troubleshooting. Also would like to add refrigeration trainers with water cooled condensers. Instructors are in the process of getting trained to become a Daikin training center.
	Cost	\$78,500.00