PATHWAY AGREEMENT

PENNSYLVANIA COLLEGE OF TECHNOLOGY

and

REFRIGERATION SERVICE ENGINEERS SOCIETY (RSES)

This agreement establishes a mechanism for working technicians completing **RSES** training courses to earn credit for the below defined coursework at Penn College in the Heating, Ventilation & Air Conditioning Engineering Technology (HEV) program at the appropriate entry point.

RSES Coursework	Hours	Penn College Coursework	Credits
Heat Pump Training Course	128	ACR 111: Introduction to Refrigeration	5
Heating Unit 1: Heating Fundamentals	36	PLH 113: Mechanical Systems Design &	4
		Operation	
Heating Unit 2: Electric Heating	36	ELT 250: HVAC/R Electricity	5
Heating Unit 3: Gas Heating	32	ACR 236: Air Conditioning Systems I	3
Heating Unit 4: Oil Heating	36	ACR 239: Residential HVAC System	3
		Design	
Heating Unit 5: Hot Water Heating	38	ELT 252: HVAC Controls I - Residential	4
Heating Unit 6: Steam Heating	38	PLH 236: Basic Heating Systems	3
		(Installation)	
R/AC Unit 1: Principles of Refrigeration	32	ACR103: HVAC Print Reading &	2
		Automated Design	
R/AC Unit 2: Compressors, Condensers	36	ACR 249: Advanced HVAC System	3
and Cooling Towers		Service	
R/AC Unit 3: Evaporators and System	38	ACR 251: Warm-Air Heating & Duct	3
Components		Design	
R/AC Unit 4: Tools Controls and	42	ELT 253: HVAC Controls II -	4
Troubleshooting		Commercial	
R/AC Unit 5: Air Conditioning	37	PLH 244: Hydronic Heating Systems	4
Principals			
R/AC Unit 6: Heat Transfer and	32	ACR 221: Refrigeration Applications -	4
Distribution		Commercial Installation/Service	
Electricity Unit 1: Introduction to	25	ACR 220: Refrigeration Applications –	4
Electricity		Commercial Systems/Design	
Electricity Unit 2: Electrical	32		
Components			
Electricity Unit 3: Basic Electronics	40		
Electricity Unit 4: Troubleshooting	44		
Components			
Electricity Unit 5: Troubleshooting	48		
Residential Equipment			
Controls Unit 1: Fundamentals of	30		
Controls			
Controls Unit 2: Pneumatic Controls	40		

Controls Unit 3: Electromechanical	40		
Controls			
Controls Unit 4: Basic Electronics for	40		
Controls			
Controls Unit 5: Electronic	40		
Proportional Controls			
Total Hours	940	Total Credits	51

This group of courses will satisfy as a block. Major-specific courses are not evaluated individually; students completing all of the listed courses from RSES will receive credit for all of the listed Penn College courses in their respective semesters.

Remaining Coursework at Penn College

First Semester		Second Semester	
Course	Credits	Course	Credits
BHV311 Fundamentals of Engineered	3	BHV320 Advanced Cooling System Design	3
Systems Design			
BHV316 Heating & Cooling System	3	BHV325 Advanced Heating Design	3
Configurations			
ENL111 English Composition I	3	ENL201 Technical & Professional	3
		Communication	
PHS103 Physics Survey or	3	CSC124 Information, Technology &	3
SCI100 Environmental Science		Society	
MTH181 College Algebra &	3	MTH183 College Algebra &	3
Trigonometry I		Trigonometry II	
		PHL210 Ethics	3
Total Credits	15	Total Credits	18

Third Semester		Fourth Semester	
Course	Credits	Course	Credits
BHV366 Advanced HVAC Control	3	BHV431 Environmental Impacts of the	3
		HVAC Industry	
BHV400 Commercial Refrigeration	3	BHV432 Mechanical System Design	3
Systems Design			
ARP Core Arts Perspective	3	BHV495 Senior Project	3
MGT115 Principles of Management	3	CDP Global & Cultural Diversity Elective	3
SCL Science Elective with lab	4	OEE Exploration Elective	3
OEA Open Elective	3	HIP Core Historical Perspective	3
Total Credits	19	Total Credits	18

Summer Session*		*Courses could be completed in the summer session
Course	Credits	prior to the first semester, between the second and
SPC Speech Elective	3	third semesters, or after the fourth semester.
OEA Open Elective	3	
SSP Core Social Science Perspective	3	
Total Credits	9	

Additional Transfer Information

- Individuals must submit a completed Penn College application.
- Students must have gained admission to Penn College and met placement requirements.
- Students must submit an official, final high school transcript.
- Students must submit an official RSES Examination & Training Course Participation
 Transcript that shows the completion of each course listed above with a final exam score of
 75% or higher.
- Students must submit a verification letter from their employer that documents a minimum of two (2) years of full-time experience in the refrigeration industry to establish competency in the occupation. The letter should be submitted to the School of Engineering Technologies, Construction & Architectural Technology division.
- Penn College will only consider those credits earned through RSES for the terms of this
 agreement. Students must request transcripts from additional institutions to be evaluated
 on an individual basis at Penn College.
- Students must complete a minimum of 36 credits at Penn College for coursework prescribed in the final four semesters of the student's baccalaureate profile.
- Credits will post on the student's official academic transcript upon the successful
 completion of twelve (12) credits of academic work at Penn College. Prior to completion of
 twelve (12) credits, for advising and scheduling purposes, approved credits will show on
 working copies of the student's academic transcript and on the student's graduation profile.
 Whether Penn College credits will be accepted by another college or university is at the
 discretion of the receiving college or university.

Agreement formalized June 2022