

HEAT PUMP CERTIFICATE

PROGRAM CODE: 1C31192N

Financial Aid Eligible

The **Heat Pump Certificate** provides students with a career path for attaining the communication skills, practical knowledge, and technical training necessary for pursuing a career in Heat Pump Technical Servicing. Students completing this certificate will develop an advanced understanding of heat pump systems. To earn this certificate, complete the required courses as listed with a grade of C or better. At least 50% of all major course work must be completed at Cypress College. This certificate requires a total of 19 units.

Code	Title	Units
Required Courses are listed in suggested sequence (19 units):		
AC/R 100 C	Principles of Thermodynamics and Heat Transfer	3
AC/R 110 C	Air Flow Design & Pscymtrcs	2
AC/R 120 C	Piping Prac-Tools and Safety	3
AC/R 036 C	Refrigerant Cert Training	1
AC/R 105 C	Electricity for Air Conditioning and Refrigeration I	3
AC/R 135 C	Sustainability Design and Application (formerly Solar Energy for Heat and Cool)	2
AC/R 106 C	Electricity for Air Conditioning and Refrigeration II	3
AC/R 230 C	Heat Pumps	2
Total Units		19

Program Student Learning Outcomes:

OUTCOME 1: Acquire the workforce preparation skills, including advanced knowledge of application of heat pumps and safety training for the EPA certification exam, necessary for a career in heat pump technical servicing.

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