


CERTIFICATE

Commercial Air Conditioning Certificate = 25 units

Program Code: 1C31186

Required courses are listed in numeric sequence:		Units
_____AC/R 100 C	Principles of Thermodynamics and Heat Transfer	3
_____AC/R 110 C	Air Conditioning I	3
_____AC/R 120 C	Piping Practice, Tools and Safety	2
_____AC/R 036 C	Refrigerants, Charging and Recovery	1
_____AC/R 137 C	Blueprints and Dimension Analysis	2
_____AC/R 105 C	Electricity for Air Conditioning & Refrigeration I	3
_____AC/R 115 C	Gas Heating and Carbon Monoxide	2
_____AC/R 125 C	Boiler and Hydronic Heating	2
_____AC/R 135 C	Solar Energy for Heat and Cool	2
_____AC/R 145 C	Load Calculations for Heating and Cooling	2
_____AC/R 205 C	Commercial Air Conditioning	<u>3</u>
Total Units Required		25

 **Key Tips:** You may opt to “double major” by applying some of these courses to other **Air Conditioning & Refrigeration Degree/Certificate** Programs. Remember to apply for certificates/degrees/graduation at the beginning of your last semester.

GOALS AND OBJECTIVES

The **Commercial Air Conditioning** certificate provides students with a career path for attaining the communication skills, practical knowledge, and technical training necessary for pursuing a career in commercial building air conditioning. Students completing this certificate will develop an advanced understanding of commercial building air conditioning.

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Commercial Air Conditioning (25 units)

To earn this certificate, complete the required courses as listed with a minimum grade of “C.” At least 50% of all major course work must be completed at Cypress College.

Updated 7/2019