

ACR - AIR COND, HEATING & REFRIGERAT (ACR)

ACR 101 Fundamentals of Refrigeration 5 SHC

This course covers the refrigeration cycle, refrigerants, pressure-temperature relationship and system components.

Lecture Hours: 4

Lab/Clinical Hours: 3

ACR 105 Tools and Service Techniques I 1 SHC

This course is an introduction to basic uses of tools and service equipment used in installation and repair of HVAC equipment.

Lecture Hours: 0

Lab/Clinical Hours: 3

ACR 106 Basic Electricity for HVAC/R 4 SHC

This course includes a basic study of electricity including Ohm's Law and series and parallel circuits as they relate to heating, ventilating, air conditioning and/or refrigeration systems.

Lecture Hours: 3

Lab/Clinical Hours: 3

ACR 107 Wiring Diagrams 2 SHC

This course covers the basic requirements for interpretation of wiring diagrams used in air conditioning and refrigeration equipment.

Lecture Hours: 1

Lab/Clinical Hours: 3

ACR 109 Tools and Service Techniques II 2 SHC

This course is an advance study of uses of tools and service equipment used in the installation and repair of HVAC equipment.

Lecture Hours: 1

Lab/Clinical Hours: 3

ACR 110 Heating Fundamentals 4 SHC

This course covers the basic concepts of oil, gas and electric heat, their components and operation.

Prerequisites: ACR 140.

Lecture Hours: 3

Lab/Clinical Hours: 3

ACR 122 Principles of Air Conditioning 5 SHC

This course is a study of the air cycle, psychrometrics, load estimating and equipment selection.

Prerequisites: ACR 101.

Lecture Hours: 4

Lab/Clinical Hours: 3

ACR 130 Domestic Refrigeration 4 SHC

This course is a study of domestic refrigeration equipment.

Lecture Hours: 3

Lab/Clinical Hours: 3

ACR 131 Commercial Refrigeration 4 SHC

This course is a study of maintenance and repair of commercial refrigeration systems.

Prerequisites: ACR 101.

Lecture Hours: 3

Lab/Clinical Hours: 3

ACR 140 Automatic Controls 3 SHC

This course is a study of the adjustment, repair and maintenance of a variety of pressure and temperature sensitive automatic controls.

Prerequisites: ACR 106.

Lecture Hours: 2

Lab/Clinical Hours: 3

ACR 150 Basic Sheet Metal 2 SHC

This course covers the tools and procedures required in the fabrication of duct work.

Lecture Hours: 1

Lab/Clinical Hours: 3

ACR 160 Service Customer Relations 3 SHC

This course covers how to deal with different types of customers, selling techniques, and correct record keeping.

Lecture Hours: 3

Lab/Clinical Hours: 0

ACR 210 Heat Pumps 4 SHC

This course is a study of theory and operational principles of the heat pump.

Prerequisites: ACR 140.

Lecture Hours: 3

Lab/Clinical Hours: 3

ACR 223 Testing and Balancing 3 SHC

This course covers testing and balancing of air distribution in duct work and water flow in piping.

Prerequisites: ACR 122.

Lecture Hours: 2

Lab/Clinical Hours: 3

ACR 224 Codes and Ordinances 2 SHC

This course covers instruction on how to reference appropriate building codes and ordinances where they apply to installation of heating and air conditioning equipment.

Lecture Hours: 2

Lab/Clinical Hours: 0

ACR 231 Advanced Refrigeration 4 SHC

This course is an in-depth study of commercial and industrial refrigeration equipment.

Prerequisites: ACR 131.

Lecture Hours: 3

Lab/Clinical Hours: 3