Classes for the HVAC/R Level 1 Technician

101. Refrigerants and Oils

Who should attend
Anyone with a certification for refrigerant EPA 608 or equivalent.

Expected Learning Outcomes
Refrigerant Types, Applications, P/T Charts, Global Warmers and Oils

102. Basic Refrigeration

Who should attend
Knowledge of Heat Energy and Matter and Electrical Fundamentals.

Expected Learning Outcomes
Refrigeration Basics, Components, Liquid and Vapor Refrigerant Phases, Heat Movement

103. Forced Air Heating Fundamentals

Who should attend
Knowledge of Heat Energy and Matter and Electrical Fundamentals.

Expected Learning Outcomes
Furnace Types and Classifications, Components, Operation Sequence, Tune-up

104. Hydronic Boiler Fundamentals

Who should attend
Knowledge of Heat Energy and Matter and Electrical Fundamentals.

Expected Learning Outcomes
Understanding Boiler Piping Arrangement, Burners, Controls, Components, Heat Transfers, Advantages and Disadvantages

105. Evaporative Cooling

Who should attend
Anyone with a desire to enter the heating and air conditioning field.

Expected Learning Outcomes
Water Sumps, Pumps, Distribution Tubes, Water Panels, Motors, Maintenance

106. Dehydration and Evacuation

Who should attend
Anyone with the knowledge of Refrigerant Recovery and EPA Certificate.

Expected Learning Outcomes
Dehydration vs. Evacuation, Moisture Contamination, Non-Condensables, Refrigerant and Oil Contaminations, Measuring Absolute Pressures

107. Heat Pump Fundamentals

Who should attend
Anyone with the knowledge of Basic Refrigeration and Electrical Fundamentals.

Expected Learning Outcomes
Air to Air, Air to Water, Geothermal, Reversing Valves, Bi-flow Driers, Defrost Controls and Efficiencies

108. Sheetmetal and Fabrication Basics

Who should attend
Anyone with a desire to enter the heating and air conditioning field.

Expected Learning Outcomes
Sheetmetal Tools, Materials, Sealants, Layout and Entry Level Fabrication

109. Indoor Air Quality

Who should attend
Anyone with a desire to enter the heating and air conditioning field.

Expected Learning Outcomes
Filtration, Humidification, Ventilation, Fuel Gas Exposures, Ozone and Carbon Monoxide

110. Air Flow and Psychometrics

Who should attend
Anyone with the knowledge of Heat Energy and Matter or equivalent.

Expected Learning Outcomes
CFM, Velocities, Temperature Rises, Temperature Drops, Dry Bulb, Wet Bulb, Dew Point, RH %, Humidity Ratio, Enthalpy

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