

APPLYING LIGHT COMMERCIAL AIR CONDITIONING	
Describe What Is Meant By High Pressure Or Low Pressure System	
Explain The Purpose Of A Cooling Tower	
Describe The Different Types Of Compressors	
Explain The Term Absorption	
UNDERSTANDING HEAT PUMPS	
Describe The Different Types Of Heat Pumps And Their Function	
Identify The Components Of A Heat Pump System	
Describe The Basic Operation Of A Heat Pump System	
Describe The Control Sequence On An Air To Air Heat Pump	
Describe The Defrost Cycle Of A Heat Pump System	
Troubleshoot The Heat Pump Reversing Valve	
Explain The Auxiliary Heating Unit Of A Heat Pump	
Perform Preventive Maintenance On A Heat Pump System	
Perform Troubleshooting Techniques On A Heat Pump System	
PERFORM REFRIGERANT RECOVERY UNDER EPA REGULATIONS	
Describe What Is Meant By Ozone Depletion	
Discuss What Is Involved In The Montreal Protocol	
Understand The EPA Legislation And Regulations	
Describe What Is Meant By Recovery, Recycling And Reclaiming	
Describe The Types Of Certification	
COMPREHENDING GAS HEATING	
Describe The Major Components Of A Gas Furnace	
Describe Gas Combustion	
Describe The Different Types Of Gas Valves And Their Function	
Describe The Different Types Of Ignition Systems And Their Function	
Describe The Safety Devices And Their Purpose	
Perform An Efficiency Test On A Gas Furnace	
Perform Preventive Maintenance On a Gas Furnace	
Perform Troubleshooting Techniques On A Gas Furnace	
COMPREHENDING OIL HEATING	
Describe The Major Components Of An Oil Heating System	
Describe How Fuel Oil & Air Are Prepared & Mixed For Proper Combustion	
Describe Products Produced As A Result Of Combustion	
Describe The Components Of A Gun Type Oil Burner	
Describe The Safety Devices And Their Purpose	
Perform An Efficiency Test On An Oil Heating System	
Perform Preventive Maintenance On An Oil Heating System	
Perform Troubleshooting Techniques On An Oil Heating System	
WORKING WITH ELECTRIC HEATING SYSTEMS	
Discuss The Efficiency Of Electric Heat	

Describe How Sequencers Work
Describe The Safety Devices And Their Purpose
Understand And Read An Electric Heat Wiring Diagram
Perform Troubleshooting Techniques On An Electric Heating System
UNDERSTANDING HYDRONIC HEATING SYSTEMS
Identify The Different Types Of Hydronic heating systems
Identify The Different Types Of Boilers And Their Purpose
Describe Way To Eliminate Air In A Hydronic System
Describe The Safety Devices And Their Purpose
APPLY KNOWLEDGE OF DEHUMIDIFICATION AND HUMIDIFICATION
Identify The Benefits Of Proper Humidification
Understand And Use The Psychrometric Chart
Explain The Different Types Of Humidifiers
Understand Health Factors In Dehumidification And Humidification
APPLY KNOWLEDGE OF AIR FILTRATION AND INDOOR AIR QUALITY
Describe What Is Meant By Indoor Air Quality
Describe The Function And Application Of Air Filters
Identify The Types Of Air Filters
Identify Air Contaminants Which Affect Our Lives
Discuss The Ventilation Requirements Of A Conditioned Space
Explain The Principles And Methods For Air Cleaning
PERFORM HEAT LOSS, HEAT GAIN CALCULATIONS AND DUCT DESIGN
Perform Heat Loss Calculation Of A Structure
Perform Heat Gain Calculation Of A Structure
Identify Different Types Of Duct Design
Identify Factors Affecting Supply And Return Duct Systems
Complete Portfolio
Complete Mock Job Interview
PERSONAL QUALITIES
Work Effort
Safety Habits
Work Area Organization
On Task Behavior
Responsibility
Initiative
Team Work
Respect
Interpersonal Skills