



AUBURN • CHARLTON • DUDLEY • NORTH BROOKFIELD • OXFORD • PAXTON
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Southern Worcester County Regional Vocational School District
BAY PATH REGIONAL VOCATIONAL TECHNICAL HIGH SCHOOL
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VC.VHVAC.2.C.01.06	C:HVAC&R Fundamentals and Refrigeration Principles	List and describe the types of regulatory codes & licensing in the HVAC&R industry.
VC.VHVAC.2.G.01.03	G:Installation and Service of Heating and Cooling Equipment	Identify and discuss applications of the different heat pump classifications such as air-source, grounds-source and water source.
VC.VHVAC.2.G.01.04	G:Installation and Service of Heating and Cooling Equipment	Install and service heat pumps.
VC.VHVAC.2.G.01.05	G:Installation and Service of Heating and Cooling Equipment	Install and service electric resistance heating systems.
VC.VHVAC.2.G.01.06	G:Installation and Service of Heating and Cooling Equipment	Describe and install heat pump with electric heating elements.
VC.VHVAC.2.G.01.07	G:Installation and Service of Heating and Cooling Equipment	List and describe the uses of heat pump operation in all modes.
VC.VHVAC.2.G.01.08	G:Installation and Service of Heating and Cooling Equipment	List and describe the characteristics of and test heat pump reversing valves.
VC.VHVAC.2.G.01.09	G:Installation and Service of Heating and Cooling Equipment	Define, calculate and troubleshoot supplementary heat.
VC.VHVAC.2.H.01	H:Installation and Service of Oil Heating Equipment	Install and troubleshoot oil heating equipment.
VC.VHVAC.2.H.01.01	H:Installation and Service of Oil Heating Equipment	Describe and follow oil heat safety.
VC.VHVAC.2.H.01.02	H:Installation and Service of Oil Heating Equipment	Describe and perform an oil burner efficiency test and adjust according to manufacturer's specifications.
VC.VHVAC.2.H.01.03	H:Installation and Service of Oil Heating Equipment	Field-test furnace/boiler operation with industry approved instruments.
VC.VHVAC.2.H.01.04	H:Installation and Service of Oil Heating Equipment	Perform a delta T reading for purposes of troubleshooting and installation according to industry standards.
VC.VHVAC.2.H.01.05	H:Installation and Service of Oil Heating Equipment	Test and replace boiler/furnace operating and safety controls.
VC.VHVAC.2.H.01.06	H:Installation and Service of Oil Heating Equipment	Describe steam heating systems, components and safety controls.
VC.VHVAC.2.H.01.07	H:Installation and Service of Oil Heating Equipment	Describe, maintain and service hydronic components, pumps and circulators.
VC.VHVAC.2.H.01.08	H:Installation and Service of Oil Heating Equipment	Install and service oil-fired boilers and furnaces.
VC.VHVAC.2.H.01.09	H:Installation and Service of Oil Heating Equipment	Demonstrate maintenance, troubleshooting procedures, and repair of oil supply systems.
VC.VHVAC.2.H.01.10	H:Installation and Service of Oil Heating Equipment	Define and demonstrate the operations of starting an oil burner according to manufacturer's specifications and current industry standards.
VC.VHVAC.2.H.01.11	H:Installation and Service of Oil Heating Equipment	Describe and demonstrate methods of preparing fuel for combustion.
VC.VHVAC.2.H.01.12	H:Installation and Service of Oil Heating Equipment	Identify and define parts and operation of an oil burner.
VC.VHVAC.2.H.01.13	H:Installation and Service of Oil Heating Equipment	Describe the characteristics of primary and safety controls.
VC.VHVAC.2.H.01.14	H:Installation and Service of Oil Heating Equipment	List and describe characteristics of and install venting systems for oil appliances.
VC.VHVAC.2.I.01	I:Installation and Service of Natural and Liquefied Petroleum Gas Equipment	Install and troubleshoot gas heating equipment.
VC.VHVAC.2.I.01.01	I:Installation and Service of Natural and Liquefied Petroleum Gas Equipment	Describe and follow gas heat safety.
VC.VHVAC.2.I.01.02	I:Installation and Service of Natural and Liquefied Petroleum Gas Equipment	Discuss and measure liquefied petroleum (L.P.) and natural gas supply and manifold pressures.
VC.VHVAC.2.I.01.03	I:Installation and Service of Natural and Liquefied Petroleum Gas Equipment	List characteristics of, test and operate standing pilot ignition systems.
VC.VHVAC.2.I.01.04	I:Installation and Service of Natural and Liquefied Petroleum Gas Equipment	List characteristics of, test and operate hot surface and electronic ignition systems.
VC.VHVAC.2.I.01.05	I:Installation and Service of Natural and Liquefied Petroleum Gas Equipment	List characteristics of, and test combustion fan motor operation.
VC.VHVAC.2.I.01.06	I:Installation and Service of Natural and Liquefied Petroleum Gas Equipment	Perform delta T reading for purposes of troubleshooting and installation according to industry standards.
VC.VHVAC.2.I.01.07	I:Installation and Service of Natural and Liquefied Petroleum Gas Equipment	List and describe properties of, test, and adjust combustion on a gas appliance.
VC.VHVAC.2.I.01.08	I:Installation and Service of Natural and Liquefied Petroleum Gas Equipment	List and describe characteristics of, test, replace, and adjust gas valves (positive and negatives).
VC.VHVAC.2.I.01.09	I:Installation and Service of Natural and Liquefied Petroleum Gas Equipment	Describe potential problems with, test, adjust, and replace operating and safety controls.
VC.VHVAC.2.I.01.10	I:Installation and Service of Natural and Liquefied Petroleum Gas Equipment	Describe characteristics of and troubleshoot 80% and 90% plus efficiency gas furnaces.

VC.VHVAC.2.I.01.11	I:Installation and Service of Natural and Liquefied Petroleum Gas Equipment	Install LP/Natural gas conversion kits.
VC.VHVAC.2.I.01.12	I:Installation and Service of Natural and Liquefied Petroleum Gas Equipment	Describe characteristics of, and maintain and service hydronic components (e.g., pumps and circulators).
VC.VHVAC.2.I.01.14	I:Installation and Service of Natural and Liquefied Petroleum Gas Equipment	Describe characteristics of venting systems for gas appliances.
VC.VHVAC.2.J.01.02	J:Air Distribution and Indoor Air Quality	Perform duct calculations for air distribution.
VC.VHVAC.2.J.01.03	J:Air Distribution and Indoor Air Quality	Design and draw basic forced-air duct system.