



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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VT.VAUTO.2.B.06.03	A:Automotive Technology Specific Safety Practices	Demonstrate safe use, placement and storage of floor jacks and jack stands.
VT.VAUTO.2.B.06.04	A:Automotive Technology Specific Safety Practices	Demonstrate and describe safety procedures when dealing with high pressure systems including necessary ventilation according to current industry standards.
VT.VAUTO.2.B.07	A:Automotive Technology Specific Safety Practices	Describe and demonstrate the importance of safety procedures to be used when servicing high pressurized systems (fuel systems, brakes, air conditioning, suspension, hydraulic systems, etc.).
VT.VAUTO.2.C.01.03	A:Automotive Technology Specific Safety Practices	Describe and demonstrate safe use of oxygen/acetylene torches and electric welding equipment.
VT.VAUTO.2.C.01.04	A:Automotive Technology Specific Safety Practices	Demonstrate ventilation procedures to be followed when working in the lab/shop area.
VT.VAUTO.2.C.02	A:Automotive Technology Specific Safety Practices	Identify and describe safety procedures when dealing with electrical circuits according to current industry standards.
VT.VAUTO.2.C.02.01	A:Automotive Technology Specific Safety Practices	Describe safety procedures to be followed when servicing supplemental restraint systems.
VT.VAUTO.2.C.02.02	A:Automotive Technology Specific Safety Practices	Demonstrate safety awareness of high voltage circuits of electric or hybrid electric vehicles and related safety precautions.
VT.VAUTO.2.C.02.03	B:Hand Tools	Identify, describe and use various types of screwdrivers.
VT.VAUTO.2.C.02.04	B:Hand Tools	Demonstrate the use and knowledge of different Phillips screwdrivers.
VT.VAUTO.2.C.03	B:Hand Tools	Demonstrate the use and knowledge of standard screwdrivers.
VT.VAUTO.2.C.03.01	B:Hand Tools	Demonstrate the use and knowledge of torx screwdrivers.
VT.VAUTO.2.C.03.02	B:Hand Tools	Demonstrate the use and knowledge of reed and prince screwdrivers.
VT.VAUTO.2.C.03.03	B:Hand Tools	Demonstrate the use and knowledge of clutch screwdrivers.
VT.VAUTO.2.C.03.04	B:Hand Tools	Demonstrate the use and knowledge of pozidrive screwdrivers.
VT.VAUTO.2.E.01	B:Hand Tools	Identify, describe and use various types of pliers.
VT.VAUTO.2.E.01.01	B:Hand Tools	Demonstrate the use and knowledge of slip-joint pliers.
VT.VAUTO.2.E.01.02	B:Hand Tools	Demonstrate the use and knowledge of rib-joint pliers.
VT.VAUTO.2.E.01.03	B:Hand Tools	Demonstrate the use and knowledge of needle-nose pliers.
VT.VAUTO.2.E.01.04	B:Hand Tools	Demonstrate the use and knowledge of diagonal cutting pliers.
VT.VAUTO.2.E.02	B:Hand Tools	Demonstrate the use and knowledge of locking pliers.
VT.VAUTO.2.E.02.01	B:Hand Tools	Demonstrate the use and knowledge of snap ring pliers.
VT.VAUTO.2.E.02.02	B:Hand Tools	Identify, describe and use various types of combination wrenches.
VT.VAUTO.2.E.03	B:Hand Tools	Demonstrate the use and knowledge of open ended wrenches.
VT.VAUTO.2.E.03.01	B:Hand Tools	Demonstrate the use and knowledge of box-end wrenches.
VT.VAUTO.2.E.03.02	B:Hand Tools	Demonstrate the use and knowledge of combination wrenches.
VT.VAUTO.2.E.03.03	B:Hand Tools	Demonstrate the use and knowledge of tubing or line wrenches.
VT.VAUTO.2.E.03.04	B:Hand Tools	Demonstrate the use and knowledge of pipe wrenches.
VT.VAUTO.2.E.03.05	B:Hand Tools	Demonstrate the use and knowledge of adjustable wrenches.
VT.VAUTO.2.F.01	B:Hand Tools	Demonstrate the use and knowledge of Allen wrenches.
VT.VAUTO.2.F.01.01	B:Hand Tools	Identify, describe and use various types of socket wrenches.
VT.VAUTO.2.F.01.02	B:Hand Tools	Demonstrate the use and knowledge of socket drive size.
VT.VAUTO.2.G.01	B:Hand Tools	Demonstrate the use and knowledge of socket point type.
VT.VAUTO.2.G.01.01	B:Hand Tools	Demonstrate the use and knowledge of different types of socket handles.
VT.VAUTO.2.G.01.02	B:Hand Tools	Demonstrate the use and knowledge of extensions and swivels.

VT.VAUTO.2.G.01.03	B:Hand Tools	Identify, describe and use various types of hammering tools.
VT.VAUTO.2.G.01.04	B:Hand Tools	Demonstrate the use and knowledge of different types of hammers.
VT.VAUTO.2.G.02.03	B:Hand Tools	Demonstrate the use and knowledge of different types of punches.
VT.VAUTO.2.G.02.04	B:Hand Tools	Demonstrate the use and knowledge of different types of chisels.
VT.VAUTO.2.G.03.02	B:Hand Tools	Identify, describe and use various metal working tools.
VT.VAUTO.2.G.04	B:Hand Tools	Demonstrate the use and knowledge of various types of files.
VT.VAUTO.2.G.04.01	B:Hand Tools	Demonstrate the use and knowledge of different types of hacksaws.
VT.VAUTO.2.G.04.02	B:Hand Tools	Demonstrate the use and knowledge of various types of thread cutting taps.
VT.VAUTO.2.G.04.03	B:Hand Tools	Demonstrate the use and knowledge of various types of thread cutting dies
VT.VAUTO.2.G.04.04	B:Hand Tools	Demonstrate the use and knowledge of a tubing cutter.
VT.VAUTO.2.G.04.05	B:Hand Tools	Demonstrate the use and knowledge of a double flaring tool.
VT.VAUTO.2.K.01	B:Hand Tools	Demonstrate the use and knowledge of an International Standards Organization (ISO) flaring tool.
VT.VAUTO.2.K.01.01	B:Hand Tools	Identify, describe and use various surface prep tools.
VT.VAUTO.2.K.01.02	B:Hand Tools	Demonstrate the use and knowledge of different types of gasket scrapers.
VT.VAUTO.2.K.01.03	B:Hand Tools	Demonstrate the use and knowledge of different types of wire brushes.
VT.VAUTO.2.K.01.04	B:Hand Tools	Identify, describe and use various types of holding tools.
VT.VAUTO.2.K.01.05	B:Hand Tools	Demonstrate the use and knowledge of various vises.
VT.VAUTO.2.K.01.06	B:Hand Tools	Demonstrate the use and knowledge of vise caps.
VT.VAUTO.2.M.01	B:Hand Tools	Demonstrate the use and knowledge of C-clamps.
VT.VAUTO.2.M.01.01	C:Power Tools	Demonstrate and explain the use of electric power tools according to current industry standards.
VT.VAUTO.2.M.01.02	C:Power Tools	Describe safety procedures to be followed when using a corded electric drill.
VT.VAUTO.2.M.01.03	C:Power Tools	Describe safety procedures to be followed when using a cordless electric drill.
VT.VAUTO.2.N.01	C:Power Tools	Drill holes to given specifications using a drill.
VT.VAUTO.2.N.01.01	C:Power Tools	Describe the difference in drilling speeds used for different metals.
VT.VAUTO.2.N.01.02	C:Power Tools	Demonstrate and explain the use of pneumatic power tools according to current industry standards.
VT.VAUTO.2.N.01.03	C:Power Tools	Identify and explain the purpose of an air impact wrench.
VT.VAUTO.2.N.01.04	C:Power Tools	Describe maintenance needs of an air impact wrench.
VT.VAUTO.2.N.01.05	C:Power Tools	Demonstrate and describe safety procedures to follow when using an air impact wrench.
VT.VAUTO.2.N.02	C:Power Tools	Identify and explain the purpose of impact sockets.
VT.VAUTO.2.N.02.01	C:Power Tools	Demonstrate and explain the use of electric automotive technology tools according to current industry standards.
VT.VAUTO.2.N.02.02	C:Power Tools	Identify and explain the purpose of a bench grinder.
VT.VAUTO.2.N.02.03	C:Power Tools	Demonstrate and describe safety procedures to follow when using a bench grinder.
VT.VAUTO.2.N.02.04	C:Power Tools	Identify and explain the purpose of a drill press.
VT.VAUTO.2.N.02.05	C:Power Tools	Demonstrate and describe the safety procedures to follow when using a drill press.
VT.VAUTO.2.O.01	D:Precision Measuring	Describe and demonstrate the use of commonly used low precision measuring tools.
VT.VAUTO.2.O.01.01	D:Precision Measuring	Identify and demonstrate the use of inside and outside calipers.
VT.VAUTO.2.O.01.02	D:Precision Measuring	Identify and demonstrate the use of a hole gauge.
VT.VAUTO.2.O.02	D:Precision Measuring	Identify and demonstrate the use of a vernier caliper.
VT.VAUTO.2.O.02.01	D:Precision Measuring	Identify and demonstrate the use of a steel rule, measuring tape, and combination square.
VT.VAUTO.2.O.02.02	D:Precision Measuring	Describe commonly used high precision measuring tools.
VT.VAUTO.2.O.02.03	D:Precision Measuring	Identify and demonstrate the use of an outside and inside micrometer.
VT.VAUTO.2.O.02.04	D:Precision Measuring	Identify and demonstrate the use of a depth micrometer.

VT.VAUTO.2.P.01	D:Precision Measuring	Identify and demonstrate the use of a dial indicator.
VT.VAUTO.2.P.01.01	E:Fasteners	Identify and demonstrate the use of commonly used threaded fasteners.
VT.VAUTO.2.P.01.02	E:Fasteners	Identify SAE bolt head markings.
VT.VAUTO.2.P.01.03	E:Fasteners	Identify metric bolt head marking.
VT.VAUTO.2.P.01.04	E:Fasteners	Identify commonly used nuts and washers.
VT.VAUTO.2.P.01.05	E:Fasteners	Identify and describe the use of machine screws.
VT.VAUTO.2.P.01.06	E:Fasteners	Identify and describe common fasteners.
VT.VAUTO.2.P.02	E:Fasteners	Explain the need for flat washers and lock washers.
VT.VAUTO.2.P.02.01	E:Fasteners	Identify and describe the use of snap rings.
VT.VAUTO.2.P.02.02	E:Fasteners	Explain the concept of fastener torque.
VT.VAUTO.2.P.02.03	E:Fasteners	Explain how to find fastener torque specifications.
VT.VAUTO.2.Q.01	E:Fasteners	Explain how to use a general fastener torque chart.
VT.VAUTO.2.Q.01.01	E:Fasteners	Explain what torque sequence refers to.
VT.VAUTO.2.Q.01.02	E:Fasteners	Explain and demonstrate the basic rules to follow when using a torque wrench.
VT.VAUTO.2.Q.01.03	E:Fasteners	Explain the concept of torque yield fasteners.
VT.VAUTO.2.Q.02	F:Vehicle Service Information	Access and use service information to perform step-to-step diagnosis and repair.
VT.VAUTO.2.Q.02.01	F:Vehicle Service Information	Research applicable vehicle and service information, such as suspension, steering system operation, vehicle service history, service precautions, technical service bulletins and recalls.
VT.VAUTO.2.Q.02.02	F:Vehicle Service Information	Locate and interpret vehicle and major component identification numbers (VIN, vehicle certification labels, calibration decals).
VT.VAUTO.2.R.01	G:Wheels and Tires	Conduct appropriate wheel and tire inspection.
VT.VAUTO.2.R.01.01	G:Wheels and Tires	Diagnose tire wear patterns and determine necessary action.
VT.VAUTO.2.R.01.02	G:Wheels and Tires	Inspect tires for sizing, tread wear and pattern. Determine necessary action. Check and adjust air pressure.
VT.VAUTO.2.R.02	G:Wheels and Tires	Measure wheel, tire, axle and hub run out.
VT.VAUTO.2.R.02.01	G:Wheels and Tires	Measure loaded run out and tire rigidity simultaneously using wheel balancing equipment.
VT.VAUTO.2.R.02.02	G:Wheels and Tires	Conduct appropriate wheel and tire mounting.
VT.VAUTO.2.R.02.03	G:Wheels and Tires	Dismount/mount tire on/off wheel rim.
VT.VAUTO.2.R.02.04	G:Wheels and Tires	Remove and install a tire and wheel assembly and torque lug nuts.
VT.VAUTO.2.R.02.05	G:Wheels and Tires	Inspect and replace wheel studs.
VT.VAUTO.2.R.03	G:Wheels and Tires	Rotate tires according to the manufacturer's recommendations.
VT.VAUTO.2.R.03.01	G:Wheels and Tires	Conduct appropriate wheel and tire balancing
VT.VAUTO.2.R.03.02	G:Wheels and Tires	Balance wheel and tire assembly statically and dynamically.
VT.VAUTO.2.Y.01.03	G:Wheels and Tires	Balance a tire on wheel, measure loaded run out and tire stiffness simultaneously to determine recommended location of wheel and tire assemblies to minimize tire pull.