Task List

Course: Intro to Transportation

Task	Description
**Local Tasks*	
VA100	ORIENTATION AND SAFETY
VA101	Identify school and shop layout.
VA102	Identify grading procedures.
VA103	Identify the labeling and hazardous warning signs.
VA104	Understand course overview.
VA105	Understand Policy manual.
VA106	Complete mandatory paperwork.
VA107	Read and understand shop rules.
VA108	Assign tool boxes/lockers
VA109	Understand safe shop practices.
VA110	Identify and understand fire safety.
VA111	Identify and demonstrate proper lifting.
VA112	Understand Personal safety.
VA113	Understand MSDS.
VA114	Identify OSHA.
VA115	Perform Safety test for Transportation Cluster Program.
VA200	TOOLS & EQUIPMENT
VA201	Demonstrate proper use of floor jacks, jack stands, and lifts.
VA202	Demonstrate and identify basic hand tools.
VA203	Demonstrate proper use of hand tools.
VA204	Demonstrate proper use of power tools.
VA205	Demonstrate proper torch use.
VA206	Demonstrate proper disposal of old oils and chemicals.
VA300	MEASUREMENTS/FASTENERS
VA301	Use measuring equipment.
VA302	Understand different types of fasteners.
VA303	Drill/tap threads.
VA304	Cut threads with die.
VA305	Drill out broken bolt/setup.
VA306	Make gaskets.
VA400	ENGINE FUNDAMENTALS
VA401	Explain internal combustion engine systems.
VA402	Explain differences between 2 and 4 - stroke motor.
VA403	Explain lve train system.
VA404	Perform engine mechanical testing.
VA405	Perform valve jobs.
VA406	R&R piston and crank shaft.

VA407	Perform lower engine measurements.
VA408	R&R cam shaft.
VA409	Perform engine valve timing.
VA500	FUEL SYSTEMS
VA501	Describe fuel system components and their operation.
VA502	R&R fuel tank.
VA503	R&R fuel pump, fuel filter and electrical & pressure test.
VA504	Rebuild float-style carburetor.
VA505	Rebuild diaphragm- style carburetor.
VA506	Test fuel injection system.
VA507	Test governor systems.
VA508	Perform scan tool use.
VA600	ELECTRICAL SYSTEMS
VA601	Trace basic electrical systems on vehicle.
VA602	Perform voltage test.
VA603	Perform amperage test.
VA604	Perform Ohms & basic continuity test.
VA605	Load test battery with AVR.
VA606	Troubleshoot charging systems with AVR.
VA607	R&R starter, disassemble, name parts, and reassemble, bench test.
VA608	R&R alternator, disassemble, name parts, and reassemble, bench test.
VA609	R&R ignition components and their purpose.
VA610	Remove, clean, gap, and reinstall spark plugs.
VA611	Set engine timing.
VA612	Test and repair ignition systems.
VA613	Test and repair starting systems.
VA614	Test and repair lighting systems.
VA700	DRIVE SYSTEMS
VA701	Explain Drive systems operation.
VA702	Repair belt drive systems.
VA703	Repair Chain drive systems.
VA704	Repair & Replace Clutches.
VA705	Remove engine from frame.
VA706	Explain the components of a rear axle (drive).
VA707	Service universal joints.
VA708	Explain and repair drive shaft systems.
VA709	Service automatic transmission.
VA800	COOLING SYSTEM
VA801	Perform a proper cooling system inspection.
VA802	R&R thermostat/gasket.
VA803	R&R drive belt(s).
VA804	R&R water pump.
VA805	R&R upper & lower radiator hoses.

VA806	R&R engine cooling fan.
VA807	R&R engine radiator.
VA808	Test cooling fan circuit.
VA809	Flush cooling system.
VA900	TIRES/WHEELS
VA901	Explain tire sidewall markings.
VA902	Mount & dismount tires.
VA903	Path and plug tires.
VA904	Balance tires & wheels
VA1000	BRAKING SYSTEMS
VA1001	Explain Brake operation/design.
VA1002	Repair mechanical brakes.
VA1003	Repair hydraulic brakes.
VA1004	R&R and measurement of drum brakes.
VA1005	R&R and measurement of disc brakes.
VA1006	Perform brake inspection, maintenance and repair.
VA1007	Bleed brakes.
VA1008	Adjust emergency brake.
VA1009	Troubleshoot braking problems.
VA1100	STEERING & SUSPENSION
VA1101	Explain Front suspension systems.
VA1102	Rebuild telescoping fork.
VA1103	R&R sway bar and links.
VA1104	R&R front struts.
VA1105	R&R and check measurements of ball joint (S).
VA1106	R&R shock absorbers.
VA1107	Remove, clean, repack & install wheel bearings.
VA1108	R&R CV shaft.
VA1109	R&R tie rod ends.
VA1110	Identify & Repair Rear suspension.
VA1111	Troubleshoot frame/suspension problems.
VA1200	PENNSYLVANIA STATE INSPECTION
VA1201	Perform PA safety inspection.
VA1300	PREVENTATIVE MAINTENANCE AND REPAIR
VA1301	Perform Preventive Maintenance Service.
VA1302	Write service repair order.

[Back]