



NATEF Task List - Maintenance & Light Repair (MLR)

Name: _____

Date: _____

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I. ENGINE REPAIR A. General		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Research applicable vehicle and service information, vehicle service history, service precautions, and technical service bulletins.												
P-1	2. Verify operation of the instrument panel engine warning indicators.												
P-1	3. Inspect engine assembly for fuel, oil, coolant, and other leaks; determine necessary action.												
P-1	4. Install engine covers using gaskets, seals, and sealers as required.												
P-1	5. Remove and replace timing belt; verify correct camshaft timing.												
P-1	6. Perform common fastener and thread repair, to include: remove broken bolt, restore internal and external threads, and repair internal threads with thread insert.												
P-3	7. Identify hybrid vehicle internal combustion engine service precautions.												

I. ENGINE REPAIR B. Cylinder Head and Valve Train		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Adjust valves (mechanical or hydraulic lifters).												



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I. ENGINE REPAIR		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
C. Lubrication and Cooling Systems													
P-1	1. Perform cooling system pressure and dye tests to identify leaks; check coolant condition and level; inspect and test radiator, pressure cap, coolant recovery tank, and heater core and galley plugs; determine necessary action.												
P-1	2. Inspect, replace, and adjust drive belts, tensioners, and pulleys; check pulley and belt alignment.												
P-1	3. Remove, inspect, and replace thermostat and gasket/seal.												
P-1	4. Inspect and test coolant; drain and recover coolant; flush and refill cooling system with recommended coolant; bleed air as required.												
P-1	5. Perform engine oil and filter change.												

II. AUTOMATIC TRANSMISSION AND TRANSAXLE		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
A. General													
P-1	1. Research applicable vehicle and service information, fluid type, vehicle service history, service precautions, and technical service bulletins.												
P-1	2. Check fluid level in a transmission or a transaxle equipped with a dip-stick.												



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II. AUTOMATIC TRANSMISSION AND TRANSAXLE A. General (continued)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	3. Check fluid level in a transmission or a transaxle not equipped with a dip-stick.												
P-2	4. Check transmission fluid condition; check for leaks.												

II. AUTOMATIC TRANSMISSION AND TRANSAXLE B. In-Vehicle Transmission/Transaxle		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-2	1. Inspect, adjust, and replace external manual valve shift linkage, transmission range sensor/switch, and park/neutral position switch.												
P-2	2. Inspect for leakage at external seals, gaskets, and bushings.												
P-2	3. Inspect replace and align power train mounts.												
P-1	4. Drain and replace fluid and filter(s).												

II. AUTOMATIC TRANSMISSION AND TRANSAXLE C. Off-Vehicle Transmission and Transaxle		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-3	1. Describe the operational characteristics of a continuously variable transmission (CVT).												
P-3	2. Describe the operational characteristics of a hybrid vehicle drive train.												



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III. MANUAL DRIVE TRAIN AND AXLES A. General		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Research applicable vehicle and service information, fluid type, vehicle service history, service precautions, and technical service bulletins.												
P-1	2. Drain and refill manual transmission/transaxle and final drive unit.												
P-2	3. Check fluid condition; check for leaks.												

III. MANUAL DRIVE TRAIN AND AXLES B. Clutch		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Check and adjust clutch master cylinder fluid level.												
P-1	2. Check for system leaks.												

III. MANUAL DRIVE TRAIN AND AXLES C. Transmission/Transaxle		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-3	1. Describe the operational characteristics of an electronically-controlled manual transmission/transaxle.												



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III. MANUAL DRIVE TRAIN AND AXLES D. Drive Shaft, Half Shafts, Universal and Constant-Velocity (CV) Joints		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-2	1. Inspect, remove, and replace front wheel drive (FWD) bearings, hubs, and seals.												
P-2	2. Inspect, service, and replace shafts, yokes, boots, and universal/CV joints.												

III. MANUAL DRIVE TRAIN AND AXLES E. Differential Case Assembly		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-2	1. Clean and inspect differential housing; check for leaks; inspect housing vent.												
P-1	2. Check and adjust differential housing fluid level.												
P-1	3. Drain and refill differential housing.												

E.1 Drive Axles

P-2	1. Inspect and replace drive axle wheel studs.												
-----	--	--	--	--	--	--	--	--	--	--	--	--	--

III. MANUAL DRIVE TRAIN AND AXLES F. Four-wheel Drive/All-wheel Drive		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-3	1. Inspect front-wheel bearings and locking hubs.												
P-2	2. Check for leaks at drive assembly seals; check vents; check lube level.												



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IV. SUSPENSION AND STEERING SYSTEMS A. General		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Research applicable vehicle and service information, vehicle service history, service precautions, and technical service bulletins.												
P-1	2. Disable and enable supplemental restraint system (SRS).												

IV. SUSPENSION AND STEERING B. Related Suspension and Steering Service		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Inspect rack and pinion steering gear inner tie rod ends (sockets) and bellows boots.												
P-1	2. Determine proper power steering fluid type; inspect fluid level and condition.												
P-2	3. Flush, fill, and bleed power steering system.												
P-1	4. Inspect for power steering fluid leakage; determine necessary action.												
P-1	5. Remove, inspect, replace, and adjust power steering pump drive belt.												
P-2	6. Inspect and replace power steering hoses and fittings.												



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IV. SUSPENSION AND STEERING B. Related Suspension and Steering Service (continued)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	7. Inspect pitman arm, relay (centerlink/intermediate) rod, idler arm and mountings, and steering linkage damper.												
P-1	8. Inspect tie rod ends (sockets), tie rod sleeves, and clamps.												
P-1	9. Inspect upper and lower control arms, bushings, and shafts.												
P-1	10. Inspect and replace rebound and jounce bumpers.												
P-1	11. Inspect track bar, strut rods/radius arms, and related mounts and bushings.												
P-1	12. Inspect upper and lower ball joints (with or without wear indicators).												
P-1	13. Inspect suspension system coil springs and spring insulators (silencers).												
P-1	14. Inspect suspension system torsion bars and mounts.												
P-1	15. Inspect and replace front stabilizer bar (sway bar) bushings, brackets, and links.												



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IV. SUSPENSION AND STEERING B. Related Suspension and Steering Service (continued)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	16. Inspect strut cartridge or assembly.												
P-1	17. Inspect front strut bearing and mount.												
P-1	18. Inspect rear suspension system lateral links/arms (track bars), control (trailing) arms.												
P-1	19. Inspect rear suspension system leaf spring(s), spring insulators (silencers), shackles, brackets, bushings, center pins/bolts, and mounts.												
P-1	20. Inspect, remove, and replace shock absorbers; inspect mounts and bushings.												
P-3	21. Inspect electric power-assisted steering.												
P-2	22. Identify hybrid vehicle power steering system electrical circuits and safety precautions.												
P-3	23. Describe the function of the power steering pressure switch.												

IV. SUSPENSION AND STEERING C. Wheel Alignment		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Perform prealignment inspection and measure vehicle ride height; determine necessary action.												



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IV. SUSPENSION AND STEERING D. Wheels and Tires		Week												
		1	2	3	4	5	6	7	8	9	10	11	12	
P-1	1. Inspect tire condition; identify tire wear patterns; check for correct size and application (load and speed ratings) and adjust air pressure; determine necessary action.													
P-1	2. Rotate tires according to manufacturer's recommendations.													
P-1	3. Dismount, inspect, and remount tire on wheel; balance wheel and tire assembly (static and dynamic).													
P-2	4. Dismount, inspect, and remount tire on wheel equipped with tire pressure monitoring system sensor.													
P-1	5. Inspect tire and wheel assembly for air loss; perform necessary action.													
P-1	6. Repair tire using internal patch.													
P-2	7. Identify and test tire pressure monitoring systems (indirect and direct) for operation; verify operation of instrument panel lamps.													
P-2	8. Demonstrate knowledge of steps required to remove and replace sensors in a tire pressure monitoring system.													



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V. BRAKES A. General		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Research applicable vehicle and service information, vehicle service history, service precautions, and technical service bulletins.												
P-1	2. Describe procedure for performing a road test to check brake system operation, including an anti-lock brake system (ABS).												
P-1	3. Install wheel and torque lug nuts.												

V. BRAKES B. Hydraulic System		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Measure brake pedal height, travel, and free play (as applicable); determine necessary action.												
P-1	2. Check master cylinder for external leaks and proper operation.												
P-1	leaks, dents, kinks, rust, cracks, bulging, wear, loose fittings and supports; determine necessary action.												
P-1	4. Select, handle, store, and fill brake fluids to proper level.												
P-3	5. Identify components of brake warning light system.												
P-1	6. Bleed and/or flush brake system.												



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V. BRAKES B. Hydraulic System (continued)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	7. Test brake fluid for contamination.												

V. BRAKES C. Drum Brakes		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Remove, clean, inspect, and measure brake drum diameter; determine necessary action.												
P-1	2. Refinish brake drum and measure final drum diameter; compare with specifications.												
P-1	3. Remove, clean, and inspect brake shoes, springs, pins, clips, levers, adjusters/self-adjusters, other related brake hardware, and backing support plates; lubricate and reassemble.												
P-2	4. Inspect wheel cylinders for leaks and proper operation; remove and replace as needed.												
P-2	5. Pre-adjust brake shoes and parking brake; install brake drums or drum/hub assemblies and wheel bearings; make final checks and adjustments.												



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V. BRAKES D. Disc Brakes		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Remove and clean caliper assembly; inspect for leaks and damage/wear to caliper housing; determine necessary action.												
P-1	2. Clean and inspect caliper mounting and slides/pins for proper operation, wear, and damage; determine necessary action.												
P-1	3. Remove, inspect, and replace pads and retaining hardware; determine necessary action.												
P-1	4. Lubricate and reinstall caliper, pads, and related hardware; seat pads and inspect for leaks.												
P-1	5. Clean and inspect rotor, measure rotor thickness, thickness variation, and lateral runout; determine necessary action.												
P-1	6. Remove and reinstall rotor.												
P-1	7. Refinish rotor on vehicle; measure final rotor thickness and compare with specifications.												
P-1	8. Refinish rotor off vehicle; measure final rotor thickness and compare with specifications.												
P-3	9. Retract and re-adjust caliper piston on an integral parking brake system.												



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V. BRAKES D. Disc Brakes (continued)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-2	10. Check brake pad wear indicator; determine necessary action.												
P-1	11. Describe importance of operating vehicle to burnish/break-in replacement brake pads according to manufacturer's recommendations.												

V. BRAKES E. Power-Assist Units		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-2	1. Check brake pedal travel with, and without, engine running to verify proper power booster operation.												
P-1	2. Check vacuum supply (manifold or auxiliary pump) to vacuum-type power booster.												

V. BRAKES F. Miscellaneous (Wheel Bearings, Parking Brakes, Electrical, Etc.)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Remove, clean, inspect, repack, and install wheel bearings; replace seals; install hub and adjust bearings.												
P-2	2. Check parking brake cables and components for wear, binding, and corrosion; clean, lubricate, adjust or replace as needed.												



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V. BRAKES F. Miscellaneous (Wheel Bearings, Parking Brakes, Electrical, Etc.) (continued)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	3. Check parking brake operation and parking brake indicator light system operation; determine necessary action.												
P-1	4. Check operation of brake stop light system.												
P-2	5. Replace wheel bearing and race.												
P-1	6. Inspect and replace wheel studs.												

V. BRAKES G. Electronic Brakes, and Traction and Stability Control Systems		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-3	1. Identify traction control/vehicle stability control system components.												
P-3	2. Describe the operation of a regenerative braking system.												

VI. ELECTRICAL/ELECTRONIC SYSTEMS A. General		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Research applicable vehicle and service information, vehicle service history, service precautions, and technical service bulletins.												



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VI. ELECTRICAL/ELECTRONIC SYSTEMS A. General (continued)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	2. Demonstrate knowledge of electrical/electronic series, parallel, and series-parallel circuits using principles of electricity (Ohm's Law).												
P-1	3. Use wiring diagrams to trace electrical/electronic circuits.												
P-1	4. Demonstrate proper use of a digital multimeter (DMM) when measuring source voltage, voltage drop (including grounds), current flow, and resistance.												
P-2	5. Demonstrate knowledge of the causes and effects from shorts, grounds, opens, and resistance problems in electrical/electronic circuits.												
P-2	6. Check operation of electrical circuits with a test light.												
P-2	7. Check operation of electrical circuits with fused jumper wires.												
P-1	9. Inspect and test fusible links, circuit breakers, and fuses; determine necessary action.												
P-1	10. Perform solder repair of electrical wiring.												
P-1	11. Replace electrical connectors and terminal ends.												



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VI. ELECTRICAL/ELECTRONIC SYSTEMS B. Battery Service		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Perform battery state-of-charge test; determine necessary action.												
P-1	2. Confirm proper battery capacity for vehicle application; perform battery capacity test; determine necessary action.												
P-1	3. Maintain or restore electronic memory functions.												
P-1	4. Inspect and clean battery; fill battery cells; check battery cables, connectors, clamps, and hold-downs.												
P-1	5. Perform slow/fast battery charge according to manufacturer's recommendations.												
P-1	6. Jump-start vehicle using jumper cables and a booster battery or an auxiliary power supply.												
P-3	7. Identify high-voltage circuits of electric or hybrid electric vehicle and related safety precautions.												
P-1	8. Identify electronic modules, security systems, radios, and other accessories that require reinitialization or code entry after reconnecting vehicle battery.												
P-3	9. Identify hybrid vehicle auxiliary (12v) battery service, repair, and test procedures.												



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VI. ELECTRICAL/ELECTRONIC SYSTEMS C. Starting System		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Perform starter current draw test; determine necessary action.												
P-1	2. Perform starter circuit voltage drop tests; determine necessary action.												
P-2	3. Inspect and test starter relays and solenoids; determine necessary action.												
P-1	4. Remove and install starter in a vehicle.												
P-2	5. Inspect and test switches, connectors, and wires of starter control circuits; determine necessary action.												

VI. ELECTRICAL/ELECTRONIC SYSTEMS D. Charging System		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Perform charging system output test; determine necessary action.												
P-1	2. Inspect, adjust, or replace generator (alternator) drive belts; check pulleys and tensioners for wear; check pulley and belt alignment.												
P-2	3. Remove, inspect, and re-install generator (alternator).												



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VI. ELECTRICAL/ELECTRONIC SYSTEMS D. Charging System (continued)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	4. Perform charging circuit voltage drop tests; determine necessary action.												

VI. ELECTRICAL/ELECTRONIC SYSTEMS E. Lighting Systems		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Inspect interior and exterior lamps and sockets including headlights and auxiliary lights (fog lights/driving lights); replace as needed.												
P-2	2. Aim headlights.												
P-2	3. Identify system voltage and safety precautions associated with high-intensity discharge headlights.												

VI. ELECTRICAL/ELECTRONIC SYSTEMS F. Accessories		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Disable and enable airbag system for vehicle service; verify indicator lamp operation.												
P-1	2. Remove and reinstall door panel.												
P-3	3. Describe the operation of keyless entry/remote-start systems.												



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VI. ELECTRICAL/ELECTRONIC SYSTEMS F. Accessories (continued)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	4. Verify operation of instrument panel gauges and warning/indicator lights; reset maintenance indicators.												
P-1	5. Verify windshield wiper and washer operation; replace wiper blades.												

VII. HEATING AND AIR CONDITIONING A. General		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Research applicable vehicle and service information, vehicle service history, service precautions, and technical service bulletins.												

VII. HEATING AND AIR CONDITIONING B. Refrigeration System Components		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Inspect and replace A/C compressor drive belts, pulleys, and tensioners; determine necessary action.												
P-2	2. Identify hybrid vehicle A/C system electrical circuits and the service/safety precautions.												
P-1	3. Inspect A/C condenser for airflow restrictions; determine necessary action.												



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VII. HEATING AND AIR CONDITIONING C. Heating, Ventilation, and Engine Cooling Systems		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Inspect engine cooling and heater systems hoses; perform necessary action.												

VII. HEATING AND AIR CONDITIONING D. Operating Systems and Related Controls		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Inspect A/C-heater ducts, doors, hoses, cabin filters, and outlets; perform necessary action.												
P-2	2. Identify the source of A/C system odors.												

VIII. ENGINE PERFORMANCE A. General		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Research applicable vehicle and service information, vehicle service history, service precautions, and technical service bulletins.												
P-1	2. Perform engine absolute (vacuum/boost) manifold pressure tests; determine necessary action												
P-2	3. Perform cylinder power balance test; determine necessary action.												
P-1	4. Perform cylinder cranking and running compression tests; determine necessary action.												



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VIII. ENGINE PERFORMANCE A. General (continued)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	5. Perform cylinder leakage test; determine necessary action.												
P-1	6. Verify engine operating temperature.												
P-1	7. Remove and replace spark plugs; inspect secondary ignition components for wear and damage.												

VIII. ENGINE PERFORMANCE B. Computerized Controls		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Retrieve and record diagnostic trouble codes, OBD monitor status, and freeze frame data; clear codes when applicable.												
P-1	2. Describe the importance of operating all OBDII monitors for repair verification.												

VIII. ENGINE PERFORMANCE C. Fuel, Air Induction, and Exhaust Systems		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Replace fuel filter(s).												
P-1	2. Inspect, service, or replace air filters, filter housings, and intake duct work.												



NATEF Task List - Maintenance & Light Repair (MLR)

Name: _____

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VIII. ENGINE PERFORMANCE C. Fuel, Air Induction, and Exhaust Systems (continued)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	3. Inspect integrity of the exhaust manifold, exhaust pipes, muffler(s), catalytic converter(s), resonator(s), tail pipe(s), and heat shields; determine necessary action.												
P-1	4. Inspect condition of exhaust system hangers, brackets, clamps, and heat shields; repair or replace as needed.												
P-3	5. Check and refill diesel exhaust fluid (DEF).												

VIII. ENGINE PERFORMANCE D. Emissions Control Systems		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-2	1. Inspect, test, and service positive crankcase ventilation (PCV) filter/breather cap, valve, tubes, orifices, and hoses; perform necessary action.												

REQUIRED SUPPLEMENTAL TASKS Shop and Personal Safety		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
	1. Identify general shop safety rules and procedures.												
	2. Utilize safe procedures for handling of tools and equipment.												



NATEF Task List - Maintenance & Light Repair (MLR)

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REQUIRED SUPPLEMENTAL TASKS Shop and Personal Safety (continued)	Week											
	1	2	3	4	5	6	7	8	9	10	11	12
3. Identify and use proper placement of floor jacks and jack stands.												
4. Identify and use proper procedures for safe lift operation.												
5. Utilize proper ventilation procedures for working within the lab/shop area.												
6. Identify marked safety areas.												
and other fire safety equipment; demonstrate knowledge												
8. Identify the location and use of eye wash stations.												
9. Identify the location of the posted evacuation routes.												
10. Comply with the required use of safety glasses, ear protection, gloves, and shoes during lab/shop activities.												
11. Identify and wear appropriate clothing for lab/shop activities.												
12. Secure hair and jewelry for lab/shop activities.												



NATEF Task List - Maintenance & Light Repair (MLR)

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REQUIRED SUPPLEMENTAL TASKS Shop and Personal Safety (continued)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
	13. Demonstrate awareness of the safety aspects of supplemental restraint systems (SRS), electronic brake control systems, and hybrid vehicle high voltage circuits.												
	14. Demonstrate awareness of the safety aspects of high voltage circuits (such as high intensity discharge (HID) lamps, ignition systems, injection systems, etc.).												
	15. Locate and demonstrate knowledge of material safety data sheets (MSDS).												

Tools and Equipment		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
	1. Identify tools and their usage in automotive applications.												
	2. Identify standard and metric designation.												
	3. Demonstrate safe handling and use of appropriate tools.												
	4. Demonstrate proper cleaning, storage, and maintenance of tools and equipment.												
	5. Demonstrate proper use of precision measuring tools (i.e. micrometer, dial-indicator, dial-caliper).												



NATEF Task List - Maintenance & Light Repair (MLR)

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Preparing Vehicle for Service		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
1. Identify information needed and the service requested on a repair order.													
2. Identify purpose and demonstrate proper use of fender covers, mats.													
correction).													
4. Review vehicle service history.													
5. Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.													
Preparing Vehicle for Customer		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
1. Ensure vehicle is prepared to return to customer per school/company policy (floor mats, steering wheel cover, etc.).													