



Correlation of

Modern Automotive Technology, by Duffy

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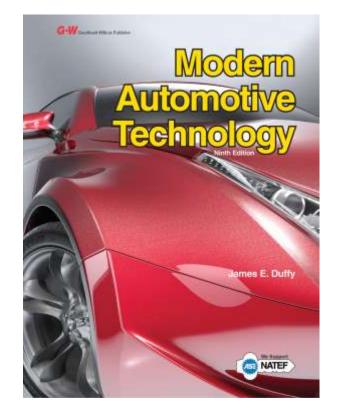
to

NATEF Maintenance and Light Repair (MLR) Task List Correlation Chart

The following chart correlates the *Modern Automotive Technology* MLR Shop Manual (©2017) to the 2017 NATEF Maintenance and Light Repair (MLR) Task List.

The correlation below lists the tasks, priority level, and the corresponding page numbers from the *Modern Automotive Technology* MLR Shop Manual for the Maintenance and Light Repair Task List.

For more information on NATEF standards, including additional information on the ASE Industry Education Alliance, please visit http://www.asealliance.org/.



ENGINE REPAIR

For every task in Engine Repair, the following safety requirement must be strictly enforced:

Task Number and Description	Priority	Job #s
I. ENGINE REPAIR		
A. General		
1. Research vehicle service information, including fluid type,	P-1	5
vehicle service history, service precautions, and technical		
service bulletins.		

Task Number and Description	Priority	Job #s
2. Verify operation of the instrument panel engine warning	P-1	6
indicators.		
3. Inspect engine assembly for fuel, oil, coolant, and other	P-1	7
leaks; determine necessary action.		
4. Install engine covers using gaskets, seals, and sealers as	P-1	8,9
required.		
5. Verify engine mechanical timing.	P-2	10
6. Perform common fastener and thread repair, to include:	P-1	11
remove broken bolt, restore internal and external threads, and		
repair internal threads with thread insert.		
7. Identify service precautions related to service of the internal	P-2	2
combustion engine of a hybrid vehicle.		
I. ENGINE REPAIR		
B. Cylinder Head and Valve Train		
1. Adjust valves (mechanical or hydraulic lifters).	P-3	12
2. Identify components of the cylinder head and valve train.	P-1	12
I. ENGINE REPAIR		
C. Lubrication and Cooling System		
1. Perform cooling system pressure dye tests to identify leaks;	P-1	13
check coolant condition and level; inspect and test radiator,		
pressure cap, coolant recovery tank, heater core, and gallery		
plugs; determine necessary action.		
2. Inspect, replace, and/or adjust drive belts, tensioners, and	P-1	14
pulleys; check pulley and belt alignment.		
3. Remove, inspect, and replace thermostat and gasket/seal.	P-1	15
4. Inspect and test coolant; drain and recover coolant; flush and	P-1	5, 13, 16, 17
refill cooling system; use proper fluid type per manufacturer		
specification; bleed air as required.		
5. Perform engine oil and filter change; use proper fluid type per	P-1	5, 17
manufacturer specification; reset maintenance reminder as		
required.		
6. Identify components of the lubrication and cooling systems.	P-1	13

AUTOMATIC TRANSMISSION AND TRANSAXLE

For every task in Automatic Transmission and Transaxle, the following safety requirement must be strictly enforced:

Task Number and Description	Priority	Job #s
II. AUTOMATIC TRANSMISSION AND TRANSAXLE		
A. General		
1. Research vehicle service information, including fluid type,	P-1	5, 18
vehicle service history, service precautions, and technical		
service bulletins.		
2. Check fluid level in a transmission or transaxle equipped with	P-1	18
a dipstick.		
3. Check fluid level in a transmission or transaxle not equipped	P-1	18
with a dipstick.		
4. Check transmission fluid condition; check for leaks.	P-2	18
5. Identify drive train components and configuration.	P-1	19, 20, 23
II. AUTOMATIC TRANSMISSION AND TRANSAXLE		
B. In-Vehicle Transmission/Transaxle		
1. Inspect, adjust, and/or replace external manual valve shift	P-2	19
linkage, transmission range sensor/switch, and/or park/neutral		
position switch.		
2. Inspect for leakage at external seals, gaskets, and bushings.	P-1	18
3. Inspect, replace, and/or align power train mounts.	P-2	20, 21
4. Drain and replace fluid filter(s); use proper fluid type per	P-1	5, 17, 22
manufacturer specification.		
II. AUTOMATIC TRANSMISSION AND TRANSAXLE		
C. Off-Vehicle Transmission/Transaxle		
1. Describe the operational characteristics of a continuously	P-3	23
variable transmission (CVT).		
2. Describe the operational characteristics of a hybrid vehicle	P-3	23
drive train.		

MANUAL DRIVE TRAIN AND AXLES

For every task in Manual Drive Train and Axles, the following safety requirement must be strictly enforced:

Task Number and Description	Priority	Job #s
III MANUAL DRIVE TRAIN AND AXLES		
A. General		
1. Research vehicle service information, including fluid type,	P-1	5
vehicle service history, service precautions, and technical		
service bulletins.		
2. Drain and refill manual transmission/transaxle and final drive	P-1	5, 17, 24
unit; use proper fluid type per manufacturer specification.		
3. Check fluid condition; check for leaks.	P-2	25
4. Identify manual drive train and axle components and	P-1	27, 28, 29, 30
configuration.		
III MANUAL DRIVE TRAIN AND AXLES		
B. Clutch		
1. Check and adjust clutch master cylinder fluid level; use	P-1	5, 17, 26
proper fluid type per manufacturer specification.		
2. Check for hydraulic system leaks.	P-1	26
III MANUAL DRIVE TRAIN AND AXLES		
C. Transmission/Transaxle		
1. Describe the operational characteristics of an electronically-	P-2	23
controlled manual transmission/transaxle.		
III MANUAL DRIVE TRAIN AND AXLES		
D. Drive Shaft, Half Shaft, Universal Joints, and Constant-Ve	locity (CV) Joints (From	nt, Rear, All, and
Four-wheel Drive)		
1. Inspect, remove, and/or replace bearings, hubs, and seals.	P-2	27
2. Inspect, service, and/or replace shafts, yokes, and	P-2	27, 28
universal/CV joints.		
3. Inspect locking hubs.	P-3	30
4. Check for leaks at drive assembly and transfer case seals;	P-2	30
check vents; check fluid level; use proper fluid type per		
manufacturer specification.		
III MANUAL DRIVE TRAIN AND AXLES		
E. Differential Case Assembly		
1. Clean and inspect differential case; check for leaks; inspect	P-1	24
housing vent.		

Task Number and Description	Priority	Job #s
2. Check and adjust differential case fluid level; use proper fluid	P-1	24
type per manufacturer specification.		
3. Drain and refill differential housing.	P-1	24
4. Inspect and replace drive axle wheel studs.	P-1	29

SUSPENSION AND STEERING

For every task in Suspension and Steering, the following safety requirement must be strictly enforced:

Task Number and Description	Priority	Job #s
IV. SUSPENSION AND STEERING		
A. General		
1. Research vehicle service information, including fluid type,	P-1	5
vehicle service history, service precautions, and technical		
service bulletins.		
2. Disable and enable supplemental restraint system (SRS);	P-1	31, 67
verify indicator lamp operation.		
3. Identify suspension and steering system components and	P-1	32, 34, 36, 40
configurations.		
IV. SUSPENSION AND STEERING		
B. Related Suspension and Steering Service		
1. Inspect rack and pinion steering gear inner tie rod ends	P-1	32
(sockets) and bellows boots.		
2. Inspect power steering fluid level and condition.	P-1	33
3. Flush, fill, and bleed power steering system; use proper fluid	P-2	5, 17, 35
type per manufacturer specification.		
4. Inspect for power steering fluid leakage.	P-1	33
5. Remove, inspect, replace, and/or adjust power steering pump	P-1	14
drive belt.		
6. Inspect and replace power steering hoses and fittings.	P-2	34
7. Inspect pitman arm, relay (centerlink/intermediate) rod, idler	P-1	32
arm, mountings, and steering linkage damper.		
8. Inspect tie rod ends (sockets), tie rod sleeves, and clamps.	P-1	32
9. Inspect upper and lower control arms, bushings, and shafts.	P-1	32
10. Inspect and replace rebound bumpers.	P-1	32
11. Inspect track bar, strut rods/radius arms, and related mounts	P-1	32
and bushings.		

Task Number and Description	Priority	Job #s
12. Inspect upper and lower ball joints (with or without wear	P-1	32
indicators).		
13. Inspect suspension system coil springs and spring insulators	P-1	32
(silencers).		
14. Inspect suspension system torsion bars and mounts.	P-1	32
15. Inspect and/or replace front/rear stabilizer bar (sway bar)	P-1	32
bushings, brackets, and links.		
16. Inspect, remove, and/or replace strut cartridge or assembly;	P-2	32
inspect mounts and bushings.		
17. Inspect front strut bearing and mount.	P-1	32
18. Inspect rear suspension system lateral links/arms (track	P-1	32
bars), control (trailing) arms.		
19. Inspect rear suspension system leaf spring(s), spring	P-1	32
insulators (silencers), shackles, brackets, bushings, center		
pins/bolts, and mounts.		
20. Inspect, remove, and/or replace shock absorbers; inspect	P-1	36
mounts and bushings.		
21. Inspect electric power steering assist system.	P-2	37
22. Identify hybrid vehicle power steering system electrical	P-2	2, 37
circuits and safety precautions.		
23. Describe the function of suspension and steering control	P-3	36, 37, 38
system components (i.e., active suspension and stability		
control).		
IV. SUSPENSION AND STEERING		·
C. Wheel Alignment		
1. Perform prealignment inspection; measure vehicle ride	P-1	39
height.		
2. Describe alignment angles (camber, caster, and toe).	P-1	39
IV. SUSPENSION AND STEERING		·
D. Wheels and Tires		
1. Inspect tire condition; identify tire wear patterns; check for	P-1	40, 42
correct tire size, application (load and speed ratings), and air		
pressure as listed on the tire information placard/label.		
2. Rotate tires according to manufacturer's recommendations,	P-1	41
including vehicles equipped with tire pressure monitoring		
systems (TPMS).		
3. Dismount, inspect, and remount tire on wheel; balance wheel	P-1	41
and tire assembly.		
4. Dismount, inspect, and remount tire on wheel equipped with	P-1	42
tire pressure monitoring system sensor.		

Task Number and Description	Priority	Job #s
5. Inspect tire and wheel assembly for air loss; determine	P-1	40, 42
necessary action.		
6. Repair tire following vehicle manufacturer approved	P-1	42
procedure.		
7. Identify indirect and direct tire pressure monitoring systems	P-1	42
(TPMS); calibrate system; verify operation of instrument panel		
lamps.		
8. Demonstrate knowledge of steps required to remove and	P-1	42, 58, 67
replace sensors in a tire pressure monitoring system (TPMS),		
including relearn procedure.		

BRAKES

For every task in Brakes, the following safety requirement must be strictly enforced:

Task Number and Description	Priority	Job #s
V. BRAKES		
A. General		
1. Research vehicle service information, including fluid type,	P-1	5
vehicle service history, service precautions, and technical		
service bulletins.		
2. Describe procedure for performing a road test to check brake	P-1	43
system operation, including anti-lock brake system (ABS).		
3. Install wheel and torque lug nuts.	P-1	40
4. Identify brake system components and configuration.	P-1	43, 44, 47, 49, 52, 53,
		54
V. BRAKES		
B. Hydraulic System		
1. Describe proper brake pedal height, travel, and feel.	P-1	43
2. Check master cylinder for external leaks and proper	P-1	43
operation.		
3. Inspect brake lines, flexible hoses, and fittings for leaks,	P-1	44
dents, kinks, rust, cracks, bulging, wear, and loose		
fittings/supports.		
4. Select, handle, store, and fill brake fluids to proper level; use	P-1	5, 17, 45
proper fluid type per manufacturer specification.		
5. Identify components of hydraulic brake warning light system.	P-3	46
6. Bleed and/or flush brake system.	P-1	45

Task Number and Description	Priority	Job #s
7. Test brake fluid for contamination.	P-1	45
V. BRAKES		
C. Drum Brakes		
1. Remove, clean, and inspect brake drum; measure brake drum	P-1	47
diameter; determine serviceability.		
2. Refinish brake drum and measure final drum diameter;	P-1	48
compare with specification.		
3. Remove, clean, inspect, and/or replace brake shoes, springs,	P-1	47
pins, clips, levers, adjusters/self-adjusters, other related brake		
hardware, and backing support plates; lubricate and reassemble.		
4. Inspect wheel cylinders for leaks and proper operation;	P-2	47
remove and replace as needed.		
5. Pre-adjust brake shoes and parking brake; install brake drums	P-1	47
or drum/hub assemblies and wheel bearings; make final checks		
and adjustments.		
V. BRAKES		
D. Disc Brakes		
1. Remove and clean caliper assembly; inspect for leaks and	P-1	49
damage/wear; determine necessary action.		
2. Inspect caliper mounting and slides/pins for proper operation,	P-1	49
wear, and damage; determine necessary action.		
3. Remove, inspect, and/or replace brake pads and retaining	P-1	49
hardware; determine necessary action.		
4. Lubricate and reinstall caliper, brake pads, and related	P-1	49
hardware; seat brake pads and inspect for leaks.		
5. Clean and inspect rotor and mounting surface, measure rotor	P-1	49
thickness, thickness variation, and lateral runout; determine		
necessary action.		
6. Remove and reinstall/replace rotor.	P-1	49
7. Refinish rotor on vehicle; measure final rotor thickness and	P-1	50
compare with specification.		
8. Refinish rotor off vehicle; measure final rotor thickness and	P-1	50
compare with specification.		
9. Retract and readjust caliper piston on an integral parking	P-2	49
brake system.		
10. Check brake pad wear indicator; determine necessary	P-1	49
action.		
11. Describe the importance of operating a vehicle to	P-1	49
burnish/break in replacement brake pads according to		
manufacturer's recommendation.		

Task Number and Description	Priority	Job #s
V. BRAKES		
E. Power-Assist Units		
1. Check brake pedal travel with and without engine running to	P-2	51
verify proper power booster operation.		
2. Identify components of the brake power assist system	P-1	51
(vacuum and hydraulic); check vacuum supply (manifold or		
auxiliary pump) to vacuum-type power booster.		
V. BRAKES		
F. Related Systems (i.e., Wheel Bearings, Parking Brakes, Ele	ectrical)	
1. Remove, clean, inspect, repack, and install wheel bearings;	P-1	52
replace seals; install hub and adjust bearings.		
2. Check parking brake system components for wear, binding,	P-2	53
and corrosion; clean, lubricate, adjust, and/or replace as needed.		
3. Check parking brake operation and parking brake indicator	P-1	53
light system operation; determine necessary action.		
4. Check operation of brake stop light system.	P-1	64
5. Replace wheel bearing and race.	P-2	52
6. Inspect and replace wheel studs.	P-1	29
V. BRAKES		
G. Electronic Brake, Traction Control, and Stability Control	Systems	
1. Identify traction control/vehicle stability control system	P-3	54
components.		
2. Describe the operation of a regenerative braking system.	P-3	54

ELECTRICAL/ELECTRONIC SYSTEMS

For every task in Electrical/Electronic Systems, the following safety requirement must be strictly enforced:

Task Number and Description	Priority	Job #s
VI. ELECTRICAL/ELECTRONIC SYSTEMS		
A. General		
1. Research service information, including vehicle service	P-1	5
history, service precautions, and technical service bulletins.		
2. Demonstrate knowledge of electrical/electronic series,	P-1	55
parallel, and series-parallel circuits using principles of		
electricity (Ohm's Law).		
3. Using wiring diagrams to trace electrical/electronic circuits.	P-1	55

Task Number and Description	Priority	Job #s
4. Demonstrate proper use of a digital multimeter (DMM) when	P-1	55
measuring source voltage, voltage drop (including grounds),		
current flow, and resistance.		
5. Demonstrate knowledge of the causes and effects from	P-1	55
shorts, grounds, opens, and resistance problems in		
electrical/electronic circuits.		
6. Use a test light to check operation of electrical circuits.	P-2	55
7. Use fused jumper wires to check operation of electrical	P-2	67
circuits.		
8. Measure key-off battery drain (parasitic draw).	P-1	55
9. Inspect and test fusible links, circuit breakers, and fuses;	P-1	55
determine necessary action.		
10. Repair and/or replace connectors, terminal ends, and wiring	P-1	56
of electrical/electronic systems (including solder repair).		
11. Identify electrical/electronic system components and	P-1	56, 58, 60, 62, 66,
configuration.		68
VI. ELECTRICAL/ELECTRONIC SYSTEMS		
B. Battery Service		
1. Perform battery state-of-charge test; determine necessary	P-1	57
action.		
2. Confirm proper battery capacity for vehicle application;	P-1	57
perform battery capacity and load test; determine necessary		
action.		
3. Maintain or restore electronic memory functions.	P-1	58
4. Inspect and clean battery; fill battery cells; check battery	P-1	58
cables, connectors, clamps, and hold-downs.		
5. Perform slow/fast battery charge according to manufacturer's	P-1	58
recommendations.		
6. Jump-start vehicle using jumper cables and booster battery or	P-1	59
an auxiliary power supply.		
7. Identify safety precautions for high voltage systems on	P-2	56
electric, hybrid-electric, and diesel vehicles.		
8. Identify electrical/electronic modules, security systems,	P-1	58
radios, and other accessories, that require reinitialization or		
code entry after reconnecting vehicle battery.		
9. Identify hybrid vehicle auxiliary (12v) battery service, repair,	P-2	57, 58
and test procedures.		
VI. ELECTRICAL/ELECTRONIC SYSTEMS		
C. Starting System		
	P-1	60

Task Number and Description	Priority	Job #s
2. Perform starter circuit voltage drop tests; determine necessary	P-1	60
action.		
3. Inspect and test starter relays and solenoids; determine	P-2	60
necessary action.		
4. Remove and install starter in a vehicle.	P-1	61
5. Inspect and test switches, connectors, and wires of starter	P-2	60
control circuits; determine necessary action.		
6. Demonstrate knowledge of an automatic idle-stop/start-stop	P-3	_
system.		
VI. ELECTRICAL/ELECTRONIC SYSTEMS		
D. Charging System		
1. Perform charging system output test; determine necessary	P-1	62
action.		
2. Inspect, adjust, and/or replace generator (alternator) drive	P-1	14, 62
belts; check pulleys and tensioners for wear; check pulley and		
belt alignment.		
3. Remove, inspect, and/or replace generator (alternator).	P-2	63
4. Perform charging circuit voltage drop test; determine	P-2	62
necessary action.		
VI. ELECTRICAL/ELECTRONIC SYSTEMS		
E. Lighting, Instrument Cluster, Driver Information, and Body	Electrical Systems	
1. Inspect interior and exterior lamps and sockets including	P-1	64
headlights and auxiliary lights (for lights/driving lights); replace		
as needed.		
2. Aim headlights.	P-2	65
3. Identify system voltage and safety precautions associated	P-2	65
with high-intensity discharge headlights.		
4. Disable and enable supplemental restraint system (SRS);	P-1	31
verify indicator lamp operation.		
5. Remove and reinstall door panel.	P-1	66
6. Describe the operation of keyless entry/remote start systems.	P-3	66
7. Verify operation of instrument panel gauges and	P-1	67
warning/indicator lights; reset maintenance indicators.		
8. Verify windshield wiper and washer operation; replace wiper	P-1	68
blades.		

HEATING AND AIR CONDITIONING

For every task in Heating and Air Conditioning, the following safety requirement must be strictly enforced:

Task Number and Description	Priority	Job #s
VII. HEATING, VENTILATION, AND AIR CONDITIONIN	G (HVAC)	
A. General		
1. Research vehicle service information, including refrigerant/oil	P-1	5
type, vehicle service history, service precautions, and technical		
service bulletins.		
2. Identify heating, ventilation, and air conditioning (HVAC)	P-1	69
components and configuration.		
VII. HEATING, VENTILATION, AND AIR CONDITIONIN	G (HVAC)	
B. Refrigeration System Components		
1. Inspect and replace A/C compressor drive belts, pulleys, and	P-1	14, 69
tensioners; visually inspect A/C components for signs of leaks;		
determine necessary action.		
2. Identify hybrid vehicle A/C system electrical circuits and the	P-2	2
service/safety precautions.		
3. Inspect A/C condenser for airflow restrictions; determine	P-1	69
necessary action.		
VII. HEATING, VENTILATION, AND AIR CONDITIONIN	G (HVAC)	
C. Heating, Ventilation, and Engine Cooling Systems		
1. Inspect engine cooling and heater systems hoses and pipes;	P-1	13
determine necessary action.		
VII. HEATING, VENTILATION, AND AIR CONDITIONIN	G (HVAC)	
D. Operating Systems and Related Controls		
1. Inspect A/C-heater ducts, doors, hoses, cabin filters, and	P-1	69
outlets; determine necessary action.		
2. Identify the source of A/C system odors.	P-2	69

ENGINE PERFORMANCE

For every task in Engine Performance, the following safety requirement must be strictly enforced:

Task Number and Description	Priority	Job #s
VIII. ENGINE PERFORMANCE		
A. General		
1. Research vehicle service information, including fluid type,	P-1	5
vehicle service history, service precautions, and technical		
service bulletins.		
2. Perform engine absolute manifold pressure test	P-2	5, 70
(vacuum/boost); document results.		
3. Perform cylinder power balance test; document results.	P-2	5, 70
4. Perform cylinder cranking and running compression test;	P-2	5, 71
document results.		
5. Perform cylinder leakage test; document results.	P-2	5, 71
6. Verify engine operating temperature.	P-1	73
7. Remove and replace spark plugs; inspect secondary ignition	P-1	72
components for wear and damage.		
VIII. ENGINE PERFORMANCE		
B. Computerized Controls		
1. Retrieve and record diagnostic trouble codes (DTC), OBD	P-1	73
monitor status, and freeze frame data; clear codes when		
applicable.		
2. Describe the use of the OBD monitors for repair and	P-1	73
verification.		
VIII. ENGINE PERFORMANCE		
C. Fuel, Air Induction, and Exhaust Systems		
1. Replace fuel filter(s) where applicable.	P-2	75
2. Inspect, service, or replace air filters, filter housings, and	P-1	75
intake ductwork.		
3. Inspect integrity of the manifold, exhaust pipes, muffler(s),	P-1	76
catalytic converter(s), resonator(s), tailpipe(s), and heat shields;		
determine necessary action.		
4. Inspect condition of exhaust system hangers, brackets,	P-1	76, 77
clamps, and heat shields; determine necessary action.		
5. Check and refill diesel exhaust fluid (DEF).	P-2	76, 77

Task Number and Description	Priority	Job #s
VIII. ENGINE PERFORMANCE		
D. Emissions Control Systems		
1. Inspect, test, and service positive crankcase ventilation	P-2	78
(PCV) filter/breather, valve, tubes, orifices, and hoses; perform		
necessary action.		

REQUIRED SUPPLEMENTAL TASKS

	Job #s
Task Number and Description	
Shop and Personal Safety	
1. Identify general shop safety rules and procedures.	1
2. Utilize safe procedures for handling of tools and equipment.	1, 4
3. Identify and use proper placement of floor jacks and jack stands.	1
4. Identify and use proper procedures for safe lift operation.	1
5. Utilize proper ventilation procedures for working within the lab/shop area.	1
6. Identify marked safety areas.	1
7. Identify the location and the types of fire extinguishers and other fire	1
safety equipment; demonstrate knowledge of the procedures for using fire	
extinguishers and other fire safety equipment.	
8. Identify the location and use of eyewash stations.	1
9. Identify the location of the posted evacuation routes.	1
10. Comply with the required use of safety glasses, ear protection, gloves,	1
and shoes during lab/shop activities.	
11. Identify and wear appropriate clothing for lab/shop activities.	1
12. Secure hair and jewelry for lab/shop activities.	1
13. Demonstrate awareness of the safety aspects of supplemental restraint	1, 31, 54
systems (SRS), electronic brake control systems, and hybrid vehicle high	
voltage circuits.	
14. Demonstrate awareness of the safety aspects of high voltage circuits	65
(such as high intensity discharge (HID) lamps, ignition systems, injection	
systems, etc.).	
15. Locate and demonstrate knowledge of material safety data sheets	1
(MSDS).	
Tools and Equipment	
1. Identify tools and their usage in automotive applications.	4
2. Identify standard and metric designation.	3
3. Demonstrate safe handling and use of appropriate tools.	4
4. Demonstrate proper cleaning, storage, and maintenance of tools and	4
equipment.	

	Job #s
Task Number and Description	
5. Demonstrate proper use of precision measuring tools (i.e., micrometer,	3
dial-indicator, dial-caliper).	
Preparing Vehicle for Service	
1. Identify information needed and the service requested on a repair order.	5
2. Identify purpose and demonstrate proper use of fender covers, mats.	5
3. Demonstrate use of the three Cs (concern, cause, and correction).	5
4. Review vehicle service history.	5
5. Complete work order to include customer information, vehicle identifying	5
information, customer concern, related service history, cause, and correction.	
Preparing Vehicle for Customer	
1. Ensure vehicle is prepared to return to customer per school/company	5
policy (floor mats, steering wheel cover, etc.).	