

NATEF AUTOMOTIVE TASK LIST
AUT 153 – AUTOMATIC TRANSMISSION DIAGNOSIS

TERM: _____

SID: _____

INSTRUCTOR: _____

NAME: _____

For every task in Automatic Transmission Diagnosis, the following safety requirement must be strictly enforced: Comply with personal and environmental safety practices associated with clothing; eye protection; hand tools; power equipment; proper ventilation; and the handling, storage, and disposal of chemicals/materials in accordance with local, state and federal safety and environmental regulations.

<u>Task Code</u>	<u>Task</u>	<u>Priority</u>
<u>C. Off-Vehicle Transmission and Transaxle Repair</u>		
2.C.1	Remove and reinstall transmission/transaxle and torque converter; inspect engine core plugs, rear crankshaft seal, dowel pins, dowel pin holes and mating surfaces.	P-1
2.C.2	Inspect, leak test, and flush or replace transmission/transaxle oil cooler, lines and fittings.	P-1
2.C.3	Inspect converter flex (drive) plate, converter attaching bolts, converter pilot, converter pump drive surfaces, converter end play and crankshaft pilot bore.	P-2
2.C.4	Describe the operational characteristics of a continuously variable transmission (CVT).	P-3
2.C.5	Describe the operational characteristics of a hybrid vehicle drive train.	P-3
2.C.6	Disassemble, clean, and inspect transmission/transaxle.	P-2
2.C.7	Inspect, measure, clean and replace valve body (includes surfaces, bores, springs, valves, sleeves, retainers, brackets, check valves/balls, screens, spacers and gaskets).	P-2
2.C.8	Inspect servo and accumulator bores, pistons, seals, pins, springs, and retainers; determine necessary action.	P-2
2.C.9	Assemble transmission/transaxle.	P-2
2.C.10	Inspect, measure and reseal oil pump assembly and components.	P-2
2.C.11	Measure transmission/transaxle end play or preload; determine necessary action.	P-1
2.C.12	Inspect, measure and replace thrust washers and bearings.	P-2
2.C.13.	Inspect oil delivery circuits, including seal rings, ring grooves, and sealing surface areas, feed pipes, orifices, and check valves/balls.	P-2
2.C.14.	Inspect bushings; determine necessary action.	P-2
2.C.15.	Inspect and measure planetary gear assembly components; determine necessary action.	P-2
2.C.16.	Inspect case bores, passages, bushings, vents, and mating surfaces; determine necessary action.	P-2
2.C.17.	Diagnose and inspect transaxle drive, link chains, sprockets, gears, bearings, and bushings; perform necessary action.	P-2
2.C.18.	Inspect measure, repair, adjust or replace transaxle final drive components.	P-2

2.C.19.	Inspect clutch drum, piston, check-balls, springs, retainers, seals, and friction and pressure plates, bands and drums; determine necessary action.	P-2
2.C.20.	Measure clutch pack clearance; determine necessary action.	P-1
2.C.21.	Air test operation of clutch and servo assemblies.	P-1
2.C.22.	Inspect roller and sprag clutch, races, rollers, sprags, springs, cages, retainers; determine necessary action.	P-2