

NATEF AUTOMOTIVE TASK LIST
AUT 151 - AUTOMATIC TRANSMISSION/TRANSAXLE

TERM: _____

SID: _____

INSTRUCTOR: _____

NAME: _____

For every task in Automatic Transmission/Transaxle 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.

Task Code Task Priority

A. General Transmission and Transaxle Diagnosis

2.A.1	Identify and interpret transmission/transaxle concern, differentiate between engine performance and transmission/transaxle concerns; determine necessary action.	P-1
2.A.2	Research applicable vehicle and service information, fluid type, vehicle service history, service precautions, and technical service bulletins.	P-1
2.A.3	Diagnose fluid loss and condition concerns; determine necessary action.	P-1
2.A.4	Check fluid level in a transmission or a transaxle equipped with a dip-stick.	P-1
2.A.5	Check fluid level in a transmission or a transaxle not equipped with a dip-stick.	P-1
2.A.6	Perform pressure tests (including transmissions/transaxles equipped with electronic pressure control); determine necessary action.	P-1
2.A.7	Diagnose noise and vibration concerns; determine necessary action.	P-2
2.A.8	Perform stall test; determine necessary action..	P-3
2.A.9	Perform lock-up converter system tests; determine necessary action.	P-3
2.A.10	Diagnose transmission/transaxle gear reduction/multiplication concerns using driving, driven, and held member (power flow) principles.	P-1
2.A.11	Diagnose electronic transmission/transaxle controls systems using appropriate test equipment and service information.	P-1
2.A.12	Diagnose pressure concerns in the transmission using hydraulic principles (Pascal's Law).	P-2

B. In-Vehicle Transmission and Transaxle Maintenance and Repair.

2.B.1	Inspect, adjust, and replace external manual valve shift linkage, transmission range sensor/switch and park/neutral position switch.	P-2
2.B.2	Inspect for leakage; replace external seals, gaskets and bushings.	P-2
2.B.3	Inspect, test, adjust, repair or replace electrical/electronic components and circuits including computers, solenoids, sensors, relay, terminal, connectors, switches and harnesses.	P-1
2.B.4	Drain and replace fluid and filters.	P-1
2.B.5	Inspect powertrain mounts.	P-2