

**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.**

<b><u>Task Code</u></b>	<b><u>Task</u></b>	<b><u>Priority</u></b>
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**A. General Transmission and Transaxle Diagnosis**

2.A.1	Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.	P1
2.A.2	Identify and interpret transmission/transaxle concern; differentiate between engine performance and transmission/transaxle concerns; determine necessary action.	P1
2.A.3	Research applicable vehicle and service information, such as transmission/transaxle system operation, fluid type, vehicle service history, service precautions, and technical service bulletins.	P1
2.A.4	Locate and interpret vehicle and major component identification numbers .	P1
2.A.5	Diagnose fluid loss and condition concerns; check fluid level in transmissions with and without dip-stick; determine necessary action.	P1
2.A.6	Perform pressure tests (including transmissions/transaxles equipped with electronic pressure Control); determine necessary action.	P1
2.A.7	Perform stall test; determine necessary action..	P3
2.A.8	Perform lock-up converter system tests; determine necessary action.	P3
2.A.9	Diagnose noise and vibration concerns; determine necessary action.	P2
2.A.10	Diagnose transmission/transaxle gear reduction/multiplication concerns using driving, driven, and held member (power flow) principles.	P1
2.A.11	Diagnose pressure concerns in the transmission using hydraulic principles (Pascal's Law).	P2
2.A.12	Diagnose electronic transmission/transaxle control systems using appropriate test Equipment and service information.	P1

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

2.B.1	Inspect, adjust and replace manual valve shift linkage, transmission range sensor/switch And park/neutral position switch.	P1
2.B.2	Inspect and replace external seals and gaskets.	P2
2.C.3	Inspect, test, adjust, repair or replace electrical/electronic components and circuits, Including computers, solenoids, sensors, relays, terminals, connectors, switches and harnesses.	P1

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|-------|---|----|
| 2.C.4 | Diagnose electronic transmission control systems using a scan tool; determine necessary action. | P1 |
| 2.C.5 | Inspect, replace, and align powertrain mounts.  | P2 |
| 2.C.6 | Service transmission; perform visual inspection, replace fluid and filters.                     | P1 |