

AUTOMATIC TRANSMISSION/TRANSAXLE SPECIALIST PROFILE OF TRAINING MASTERY

Instructor _____

Date _____

Program _____	
Grade _____	School _____
Name _____	Soc. Sec. No. _____
Address _____	Phone _____
In Case of Emergency, Contact _____	
Address _____	Phone _____
Allergies/Disabilities that might require special accommodation for training (please specify) _____	
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Date of Enrollment ____ - ____ - ____ Total Class Hours _____ Total Hours Absent _____
Date of Withdrawal ____ - ____ - ____ Total On-the-Job Training Hours _____ Total Hours Tardy _____
Date of Completion ____ - ____ - ____ Total Lab Hours _____

ON-THE-JOB TRAINING/WORK EXPERIENCE

_____	_____	_____
Duration of Employment	Job Title	Supervisor's Name
_____		_____
Address of Employer		Phone
_____	_____	_____
Duration of Employment	Job Title	Supervisor's Name
_____		_____
Address of Employer		Phone

Use of This Document

This document can be used to record information about the student and skills mastered. This information is useful in documenting student progress during training and in providing information about the student's qualifications to potential employers and/or for entry into advanced training programs. Instructors using these materials are authorized to reproduce this document as required for use in their training programs.



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Curriculum and Instructional Materials Center, Oklahoma Department of Career and Technology Education
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Date/Initials

UNIT 6 - SERVICING FRICTION UNITS AND COOLER

- _____ 1. Label the parts of a multiple-disc clutch assembly.
- _____ 2. State the functions of clutch assembly components.
- _____ 3. Describe types of piston return spring arrangements.
- _____ 4. Explain clutch operation.
- _____ 5. Explain the importance of clutch pack clearances.
- _____ 6. Label the parts of a sprag clutch.
- _____ 7. Label the parts of a roller clutch.
- _____ 8. Explain how sprag and roller clutches work.
- _____ 9. Label the parts of a typical band/servo assembly.
- _____ 10. State the functions of band and servo components.
- _____ 11. State the functions of internal and external coolers.
- _____ 12. Distinguish between descriptions of internal and external coolers.
- _____ 13. Disassemble, inspect, replace, and reassemble a multiple-disc clutch assembly.
- _____ 14. Measure and adjust clutch pack clearance.
- _____ 15. Air test clutch pack and internal servo assemblies.
- _____ 16. Inspect and replace sprag and roller clutches.
- _____ 17. Inspect and adjust bands and replace or refinish drums.
- _____ 18. Leak test and service cooler and lines.
- _____ 19. Measure cooler flow rate.
- _____ 20. Reassemble transmission.
- _____ 21. Reinstall and adjust transmission.

UNIT 7 - SERVICING FRONT-WHEEL DRIVE TRANSMISSIONS

- _____ 1. Answer questions about the characteristics of a front-wheel drive automatic transmission/transaxle.
- _____ 2. Label the parts of a typical gearshift linkage on a front-wheel drive transaxle.
- _____ 3. Describe the functions of various types of automatic transaxle linkages and controls.
- _____ 4. State the function of the transaxle drive link assembly.
- _____ 5. Label the parts of a transaxle drive link assembly.
- _____ 6. Identify wear points of a transaxle drive link assembly.
- _____ 7. Label the parts of a typical FWD axle shaft assembly.
- _____ 8. Label the parts of a typical final drive and differential assembly.
- _____ 9. Identify final drive arrangements and gear types.
- _____ 10. Replace external seals and gaskets.
- _____ 11. Remove transaxle.
- _____ 12. Disassemble and clean transaxle.
- _____ 13. Inspect converter flexplate assembly.
- _____ 14. Inspect transaxle drive link assembly.
- _____ 15. Inspect transaxle final drive components.

Date/Initials

UNIT 8 - DIAGNOSING GENERAL AUTOMATIC TRANSMISSION/TRANSAXLE PROBLEMS

- _____ 1. List the basic steps in automatic transmission diagnosis.
- _____ 2. Read an oil circuit diagram.
- _____ 3. Read application/range reference charts.
- _____ 4. Read troubleshooting charts.
- _____ 5. Read an electrical circuit test chart.
- _____ 6. Distinguish among the purposes of pressure tests, stall tests, and lock-up converter system tests.
- _____ 7. List safety guidelines for performing pressure tests, stall tests, and lock-up converter system tests.
- _____ 8. Perform a stall test.
- _____ 9. Perform a road test.
- _____ 10. Perform control pressure tests.
- _____ 11. Perform lock-up converter system tests.

UNIT 9 - TESTING RELATED ELECTRONIC COMPONENTS

- _____ 1. Match computer control system components with their functions.
- _____ 2. Describe basic operational stages of a computer control system.
- _____ 3. Describe the functions of various electrical/electronic test tools.
- _____ 4. State Ohm's Law.
- _____ 5. List uses of Ohm's Law.
- _____ 6. State the unit of measure formulas from Ohm's Law.
- _____ 7. State Ohm's Law for power.
- _____ 8. List uses of Ohm's Law for power.
- _____ 9. State the unit of measure formulas from Ohm's Law for power.
- _____ 10. Describe the purposes of sensors and switches used to send the electronic control unit information for torque converter clutch operation.
- _____ 11. List advantages of computer control of torque converter.
- _____ 12. Explain how a solenoid operates a torque converter clutch.
- _____ 13. Solve problems involving Ohm's Law.
- _____ 14. Check circuit continuity with an analog ohmmeter..
- _____ 15. Measure current, voltage, and resistance with a digital multimeter (DVOM).
- _____ 16. Test transmission/transaxle-related electrical/electronic components.
- _____ 17. Perform computer relearn procedures.