



Australian Government

AURTTX103 Inspect and service automatic transmissions

Release: 1

AURTTX103 Inspect and service automatic transmissions

Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Application

This unit describes the skills and knowledge required to inspect and service automatic transmissions. It involves preparing for the task, inspecting the transmission, reporting the inspection findings, servicing and adjusting the transmission, and completing workplace processes and documentation.

The unit applies to those working in the automotive service and repair industry. The automatic transmissions include those of agricultural machinery, heavy commercial vehicles, light vehicles, marine vessels, mobile plant machinery, motorcycles or outdoor power equipment.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.

Unit Sector

Mechanical Miscellaneous Technical - Transmission

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to inspect and service automatic transmission	1.1 Determine job requirements from workplace instructions 1.2 Source and interpret servicing information 1.3 Identify hazards associated with the work and manage risks 1.4 Select and check tools, equipment and materials for serviceability
2. Inspect automatic transmission	2.1 Carry out inspection according to manufacturer specifications, workplace procedures, and safety and environmental requirements 2.2 Compare inspection results with manufacturer specifications 2.3 Report recommendations for required repairs or adjustments

ELEMENTS	PERFORMANCE CRITERIA
	according to workplace procedures
3. Service automatic transmission	3.1 Carry out service and adjustments according to manufacturer specifications, workplace procedures, and safety and environmental requirements, and without causing damage to components or systems 3.2 Carry out post-service testing according to workplace procedures
4. Complete work processes	4.1 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use 4.2 Clear work area and dispose of or recycle materials according to workplace procedures 4.3 Complete documentation according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Learning	Locates required sources of information efficiently.
Numeracy	Calculates liquid volumes and service schedule intervals using basic mathematical operations, including addition and subtraction.
Oral communication	Clarifies instructions.
Reading	Interprets information from manufacturer and workshop literature when seeking service procedures and specifications relating to automatic transmissions.
Technology	Uses specialised tools and equipment.

Unit Mapping Information

Supersedes and is equivalent to AURTTX003 Inspect and service automatic transmissions.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>

Assessment Requirements for AURTTX103 Inspect and service automatic transmissions

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- inspect and service the automatic transmissions of at least two different vehicles or machinery, including:
 - replacing transmission fluid and filter
 - making transmission adjustments.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods to locate and interpret information required to inspect and service automatic transmissions, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to inspect and service automatic transmissions, including:
 - establishing serviceability of tools and equipment
 - documentation procedures, including:
 - inspection findings and recommendations for required repairs or adjustments
 - housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment
 - identification, tagging and isolation of faulty equipment
 - disposal of excess materials
 - recycling procedures
- work health and safety (WHS) requirements relating to inspecting and servicing automatic transmissions, including procedures for handling transmission fluids

- environmental requirements, including procedures for trapping, storing and disposing of fluids released from transmissions
- identification and function of automatic transmission components, including:
 - torque converter
 - control valve body
 - housings
 - gear trains
 - bands and clutch packs
 - servos
 - oil pumps
 - electronic controls
 - selector mechanisms
- basic operation of automatic transmission, including:
 - torque converter
 - transaxle
 - longitudinal transmission
- types and applications of transmission fluids
- inspection procedures for automatic transmissions, including:
 - fluid levels and condition
 - fluid leaks
 - internal and external physical condition
 - transmission sensors and controls
- service and adjustment procedures for automatic transmissions, including:
 - replacing transmission fluid and filter
 - checking transmission fluid levels
 - adjusting bands, linkages and sensors as required
- post-service testing procedures for automatic transmissions.

Assessment Conditions

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the automatic transmissions that they have worked on, e.g. repair orders.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- automotive repair workplace or simulated workplace

- workplace instructions
- manufacturer automatic transmission specifications
- two different vehicles or machinery with automatic transmissions requiring servicing
- tools, equipment and materials appropriate for inspecting and servicing automatic transmissions.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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