



Australian Government

AURTTX015 Inspect and service clutch systems

Release: 1

AURTTX015 Inspect and service clutch systems

Modification History

Release	Comment
Release 1	New unit of competency.

Application

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

This unit applies to those working in the automotive service and repair industry. The clutch systems include those of agricultural machinery, heavy commercial vehicles, light vehicles, 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

Technical - Transmission

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare to inspect and service clutch system	1.1 Identify job requirements from workplace instructions 1.2 Obtain and interpret servicing information 1.3 Identify hazards and environmental issues, assess potential risks and implement control measures in line with workplace policies 1.4 Identify tools, equipment and materials required for the job, and examine for serviceability
2. Inspect clutch system	2.1 Carry out inspection according to manufacturer specifications, workplace procedures and workplace health and safety and environmental requirements 2.2 Compare inspection results with manufacturer specifications 2.3 Report inspection findings and make recommendations for necessary repairs or adjustments according to workplace

	procedures
3. Service clutch system	3.1 Carry out service and adjustment activities according to manufacturer specifications, workplace procedures, workplace health and safety and environmental requirements, and without causing damage to components or systems 3.2 Carry out post-service testing according to workplace procedures and rectify any issues identified
4. Complete work processes	4.1 Carry out final inspection to ensure work meets workplace expectations and vehicle or machinery is ready for use 4.2 Clear work area and dispose of or recycle materials according to workplace procedures 4.3 Examine and store tools and equipment according to workplace procedures 4.4 Complete workplace documentation according to workplace procedures

Foundation Skills

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

Skills	Description
Learning skills to:	locate relevant sources of clutch systems information efficiently
Reading skills to:	read and interpret information from manufacturer specifications, workplace procedures and documentation, when seeking clutch systems service procedures and specifications
Writing skills to:	legibly and accurately fill out workplace documentation when reporting inspection findings, making repair recommendations, and recording parts and material used
Oral communication skills to:	- clarify instructions - report inspection findings - make repair recommendations
Numeracy skills to:	- use mathematical operations, including addition and subtraction - measure clutch system components - compare measurements against specifications
Problem solving skills to:	refer problems outside area of responsibility to relevant person

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AURTTX015 Inspect and service clutch systems (Release 1)	AURTTX005 Inspect and service clutch systems (Release 1)	Wording changes to ensure compliance with Standards for Training Packages. Removal of reference to OHS requirements. Removal of range of conditions. Addition of assessor requirements.	Equivalent

Links

Companion Volume Implementation Guides are found in VETNet -

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

Assessment Requirements for AURTTX015 Inspect and service clutch systems

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Performance Evidence

The candidate must demonstrate the following according to the standards defined in the elements, performance criteria and foundation skills of this unit.

The candidate must demonstrate inspecting and servicing the clutch systems of two different vehicles or machinery, including:

- one mechanically operated clutch system
- one hydraulically operated clutch system
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Knowledge Evidence

The candidate must demonstrate the following knowledge:

Key policies and procedures for the inspection and service of clutch, including:

- how to locate and interpret manufacturer specifications or equivalent documentation and workplace procedures for inspecting and servicing clutch systems
- the following workplace health and safety requirements for inspecting and servicing clutch systems:
 - procedures for controlling clutch dust and clutch fluid hazards
- the following environmental requirements and procedures for inspecting and servicing clutch systems:
 - trapping, storing and disposing of clutch fluid released during clutch bleeding
- the following inspection procedures for clutch systems:
 - mechanically or cable operated clutch component wear
 - hydraulic operating system for leaks
- service and adjustment procedures for clutch systems, including:
 - adjusting clutch pedal
 - adjusting release fork
 - bleeding clutch fluid
- post-service testing procedures for clutch systems

- workplace housekeeping and documentation procedures

Clutch systems technical information including:

- the identification, function and operation of the following clutch system and components:
 - clutch plate
 - pressure plate
 - flywheel
 - release bearing and release fork
 - pedals and cables
 - master cylinder
 - slave cylinder
- basic operation of the following clutch systems:
 - dry single or multi-plate clutch
 - wet multi-plate clutch
 - centrifugal clutch
 - hydraulically operated clutch
 - mechanically or cable operated clutch
- types and applications of clutch fluids
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Assessment Conditions

The assessment must:

- include access to:
 - an automotive repair workplace or simulated workplace that reflects workplace conditions - where simulation is used, it must reflect real working conditions by modelling industry operating conditions and contingencies, as well as, using suitable facilities, equipment and resources
 - repair orders and workplace instructions relating to inspect and service activity
 - workplace procedures relating to inspect and service activity
 - manufacturer clutch system specifications or equivalent documentation to complete inspect and service activity
 - two different vehicles or machinery with clutch systems requiring servicing
 - tools, equipment and materials suitable for inspecting and servicing clutch systems
- be demonstrated in the workplace or in a simulated environment that reflects workplace conditions
- be conducted in a safe environment
- be assessed in compliance with relevant policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed
- confirm consistent performance can be applied in a range of relevant workplace circumstances

Assessor Requirements

Assessors of this unit must:

- satisfy the assessor requirements in applicable vocational education and training legislation, frameworks and/or standards
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