

Australian Government

Department of Education, Employment and Workplace Relations

AURT406145A Overhaul clutch assemblies

Release: 1



AURT406145A Overhaul clutch assemblies

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers the competence required to carry out the overhaul of dry or wet clutch assemblies and/or associated components.
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Application of the Unit

Application of the unit	The unit includes identification and confirmation of the work requirement, preparation for work, testing of clutch assemblies, analysing test results, overhauling of clutch assemblies and completion of work finalisation processes, including clean-up and documentation.
	Work involved includes all vehicles/machines.
	Work requires individuals to demonstrate discretion, judgement and problem-solving skills in managing own work activities and contributing to a productive team environment.
	Work is carried out in accordance with award provisions.

Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units	

Employability Skills Information

Emplo	oyability	skills
Link	<i>y</i> a <i>y</i> m <i>y</i>	

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare to undertak the overhaul of clutch assemblies	 e 1.1.Nature and scope of the work requirements are identified and confirmed 1.2.OH&S requirements, including individual
	State/Territory regulatory requirements and personal protection needs are observed throughout the work
	1.3. Procedures and information such as workshop manuals, specifications and tooling, are sourced
	1.4. Method options are analysed and those most appropriate to the circumstances are selected and prepared
	1.5. Technical and/or adjustment requirements for the testing and overhaul of clutch assemblies are sourced and support equipment is identified and prepared
	1.6. Warnings in relation to working with clutch assemblies are observed
2. Test clutch assemblies and analyse results	2.1. Methods for the conduct of the tests are implemented in accordance with workplace procedures and manufacturer/component supplier specifications
	2.2. Results are compared with manufacturer/component supplier specifications to indicate compliance or non-compliance
	2.3.Results are documented with evidence and supporting information and recommendation(s) made
	2.4. Report is forwarded to appropriate persons for action in accordance with workplace procedures
3. Carry out the overhaul of clutch assemblies	3.1. Methods for the conduct of the overhaul are implemented in accordance with workplace procedures and manufacturer/component supplier specifications
	3.2. All adjustments made during the overhaul are in accordance with manufacturer/component supplier specifications
4. Prepare vehicle/	4.1. Overhaul schedule documentation is completed
equipment for use or storage	4.2. Final inspection is made to ensure protective guards, safety features and cowlings are in place
	4.3. Final inspection is made to ensure work is to workplace expectations
	4.4. Vehicle/equipment is cleaned for use or stored to workplace expectations
	4.5. Job card is processed in accordance with workplace

ELEMENT

PERFORMANCE CRITERIA

procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- apply research and interpretive skills sufficient to locate, interpret and apply manufacturer/component supplier procedures, workplace policies and procedures
- apply analytical skills required for identification and analysis of technical information
- apply plain English literacy and communication skills in relation to dealing with customers and team members
- apply questioning and active listening skills for example when obtaining information from customers
- apply oral communication skills sufficient to convey information and concepts to customers
- apply planning and organising skills to own work activities, including making good use of time and resources, sorting out priorities and monitoring own performance
- interact effectively with other persons both on a one-to-one basis and in groups, including understanding and responding to the needs of a customer and working effectively as a member of a team to achieve a shared goal
- the capacity to apply problem-solving strategies in purposeful ways, both in situations where the problem and desired solution are clearly evident and in situations requiring critical thinking and a creative approach to achieve an outcome
- use mathematical ideas and techniques to calculate time, assess tolerances, apply accurate measurements, calculate material requirements and establish quality checks
- use workplace technology related to the testing and overhauling of dry and wet clutch assemblies and associated components, including the use of measuring equipment, computerised technology and communication devices and reporting/documenting of results

Required knowledge

A working knowledge of:

- OH&S regulations/requirements, equipment, material and personal safety requirements
- dangers of working with wheeled and tracked equipment

REQUIRED SKILLS AND KNOWLEDGE

- identification of the application, purpose and operation
- identification of component parts to include physical, fluid, gases and heat generation
- identification of wear evaluation methods
- clutch assembly test procedures
- clutch assembly overhaul procedures
- enterprise quality procedures
- work organisation and planning processes

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	It is essential that competence in this unit signifies ability to transfer competence to changing circumstances and to respond to unusual circumstances in the critical aspects of:
	 observing safety procedures and requirements communicating effectively with others involved in or affected by the work selecting methods and techniques appropriate to the circumstances completing preparatory activity in a systematic manner identification of the application, purpose and operation application of the full overhaul sequence as per the Range Statement relative to the qualification being sought conducting the overhaul in accordance with workplace and manufacturer/component supplier requirements interpreting the test results completing overhaul of the clutch and associated components within workplace timeframes presentation of the vehicle/machine to customer in compliance with workplace requirements
Context of, and specific resources for assessment	Application of competence is to be assessed in the workplace or simulated worksite Assessment is to occur using standard and authorised
	work practices, safety requirements and environmental constraints
	Assessment is to comply with regulatory requirements, including Australian Standards
	The following resources should be made available:
	 workplace location or simulated workplace materials relevant to testing and overhauling dry and

EVIDENCE GUIDE	
	 wet clutch assemblies and associated components equipment, hand and power tooling appropriate to testing and overhauling dry and wet clutch assemblies and associated components activities covering the mandatory task requirements specifications and work instructions
Method of assessment	Assessment must satisfy the endorsed assessment guidelines of the automotive industry's RS&R Training Package
	Assessment methods must confirm consistency and accuracy of performance together with application of underpinning knowledge
	Assessment must be by direct observation of tasks, with questioning on underpinning knowledge and it must also reinforce the integration of key competencies
	Assessment may be applied under project related conditions (real or simulated) and require evidence of process
	Assessment must confirm a reasonable inference that competence is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances
	It is preferable assessment reflects a process rather than an event and occurs over a period of time to cover the varying quality circumstances. Evidence of performance may be provided by customers, team leaders/members or other appropriate persons subject to agreed authentication arrangements
	Competence in this unit may be assessed in conjunction with other functional units which together form part of the holistic work role
Guidance information for assessment	

Range Statement

RANGE STATEMENT

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Variables	Variables can include, single, dual and multiple plate clutches, pressure plates, over centre and two stage clutches
Overhaul methods and sequences	Overhaul methods and sequences are to include the complete dismantling of component parts, measuring and evaluation of wear, the replacement, repair, rebuilding or reconditioning of parts comparable to original parts, the assembly of parts, performance of functional testing and the completion of records
OH&S	OH&S requirements are to be in accordance with legislation/regulations/codes of practice and enterprise safety policies and procedures. This may include protective clothing and equipment, use of tooling and equipment, workplace environment and safety, handling of materials, use of fire fighting equipment, enterprise first aid, hazard control and hazardous materials and substances
Personal protective equipment	Personal protective equipment is to include that prescribed under legislation/regulations/codes of practice and workplace policies and practices
Safe operating procedures	Safe operating procedures are to include, but are not limited to the conduct of operational risk assessment and treatments associated with vehicular movement, toxic substances, electrical safety, machinery movement and operation, manual and mechanical lifting and shifting, working in proximity to others and site visitors
Emergency procedures	Emergency procedures related to this unit are to include, but are not limited to emergency shutdown and stopping of equipment, extinguishing fires, enterprise first aid requirements and site evacuation

RANGE STATEMENT		
Environmental requirements	Environmental requirements are to include but are not limited to waste management, noise, dust and clean-up management Quality requirements are to include, but are not limited to regulations, including Australian Standards, internal company quality policy and standards and enterprise operations and procedures	
Quality requirements		
Statutory/regulatory authorities	Statutory/regulatory authorities may include Federal, State/Territory and local authorities administering acts, regulations and codes of practice	
Tooling and equipment	Tooling and equipment may include hand tooling, meters, gauges and load testing devices	
Materials	Materials may include lubricants, spare parts and cleaning materials	
Communications	Communications are to include, but are not limited to verbal and visual instructions and fault reporting and may include site specific instructions, written instructions, plans or instructions related to job/task, telephones and pagers	
Information/documents	 Sources of information/documents may include: verbal or written and graphical instructions, signage, work schedules/plans/specifications, work bulletins, memos, material safety data sheets, diagrams or sketches safe work procedures related the overhaul of dry and wet clutch assemblies and/or associated components regulatory/legislative requirements pertaining to the automotive industry, including Australian Design Rules engineer's design specifications and instructions organisation work specifications and requirements instructions issued by authorised enterprise or external persons 	

RANGE STATEMENT		
	•	Australian Standards

Unit Sector(s)

Unit sector	Technical	
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Co-requisite units

Co-requisite units	

Competency field

Competency field
