

Australian Government

Department of Education, Employment and Workplace Relations

# AURT213170A Service final drive (driveline)

Release: 1



### AURT213170A Service final drive (driveline)

## **Modification History**

Not Applicable

## **Unit Descriptor**

Unit descriptor	This unit covers the competence required to carry out the servicing of final drive drivelines in an automotive retail, service and/or repair context.
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## **Application of the Unit**

Application of the unit	The unit includes identification and confirmation of work requirement, preparation for work, inspection of drivelines, the analysis of inspections results, servicing of drivelines and completion of work finalisation processes, including clean-up and documentation.
	This unit of competence refers to work associated with servicing final drives (drivelines), including light and heavy vehicles and agricultural equipment.
	Work requires individuals to demonstrate discretion, judgement and problem-solving skills in managing own work activities and contributing to a productive team environment within the scope of this unit. This includes an understanding of the level of work to be performed. Work is carried out in accordance with award provisions.

## Licensing/Regulatory Information

Not Applicable

## **Pre-Requisites**

Prerequisite units	

## **Employability Skills Information**

Employability skills	This unit contains employability skills.
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## **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	PERFORM	ANCE CRITERIA
1. Prepare to unc inspections an		re and scope of work requirements are identified onfirmed
servicing of drivelines	State	xS requirements, including individual /Territory regulatory requirements and personal ction needs are observed throughout the work
		edures and information such as workshop als and specifications, and tooling required, are ed
	select	nods appropriate to the circumstances are ted and prepared in accordance with standard ting procedures
	drive	urces required for inspection and servicing of lines are sourced and support equipment is ified and prepared
		nings in relation to working with rotating devices bserved
2. Conduct inspe and analyse re	sults work	ections are implemented in accordance with place procedures and manufacturer/ component ier specifications
	comp	ection results are compared with manufacturer/ onent supplier specifications to indicate liance or non-compliance
		Its are documented with evidence and orting information and recommendation(s) made
	-	ort is forwarded to persons for action in dance with workplace procedures
3. Carry out serv	work	ice is implemented in accordance with place procedures and manufacturer/component ier specifications
	accor	stments made during the service are in dance with manufacturer/component supplier fications
4. Prepare equip		ice schedule documentation is completed
vehicle for use or storage	+.2.1 ma	inspection is made to ensure protective guards, y features and cowlings are in place
		inspection is made to ensure work is to place expectations
	-	pment/vehicle is cleaned for use or storage to place expectations
	4.5.Job c	eard 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 one's 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
- establish safe and effective work processes which anticipate and/or resolve problems and downtime, to systematically develop solutions to avoid or minimise reworking and avoid wastage
- use mathematical ideas and techniques to correctly calculate time, assess tolerances, apply accurate measurements, calculate material requirements and establish quality checks
- use workplace technology related to the servicing of final drive drivelines and associated components, including the use of measuring equipment, computerised technology and communication devices and the reporting/documenting of results

#### Required knowledge

A working knowledge of:

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

#### **REQUIRED SKILLS AND KNOWLEDGE**

- identification of application, purpose and operating principles
- types and layout of service/repair manuals (hard copy and electronic)
- inspection procedures
- service 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	<ul> <li>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:</li> <li>observing safety procedures and requirements</li> <li>communicating effectively with others involved in or affected by the work</li> <li>selecting methods and techniques appropriate to the circumstances</li> <li>completing preparatory activity in a systematic manner</li> <li>identification of application, purpose and operating principles</li> <li>conducting inspection, servicing and operational testing in accordance with workplace and manufacturer/ component supplier specifications</li> <li>accurately interpreting inspection results</li> <li>completing service of drivelines and associated components within workplace timeframes</li> <li>vehicle is presented to customer in compliance with workplace requirements</li> </ul>
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

EVIDENCE GUIDE		
	Assessment is to comply with regulatory requirements, including Australian Standards The following resources should be made available:	
	<ul> <li>workplace location or simulated workplace</li> <li>material relevant to the servicing of final drive drivelines and associated components</li> <li>equipment, hand and power tooling appropriate to the servicing of final drive drivelines and associated components</li> <li>activities covering mandatory task requirements</li> <li>specifications and work instructions</li> </ul>	
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 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 that assessment reflects a process rather than an event and occurs over a period of time to cover varying quality circumstances. Evidence of performance may be provided by customers, team leaders/members or other 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**

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	<ul> <li>Variables include:</li> <li>universal joints and their alignment</li> <li>constant velocity joints</li> <li>centre bearings</li> </ul>
Servicing	Servicing to include fluids, filters, adjustments and operational testing, visual inspections and documents
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 material, 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, hazardous substances, machinery movement and operation, manual 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, operating safely in the event of fires, enterprise first aid requirements and site evacuation
Environmental requirements	Environmental requirements are to include but are not limited to waste management, noise, dust and

RANGE STATEMENT		
	clean-up management	
Quality requirements	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	
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 grease guns	
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	
<b>Information/documents</b>	<ul> <li>Sources of information/documents may include:</li> <li>verbal or written and graphical instructions, signage, work schedules/plans/specifications, work bulletins, memos, material safety data sheets, diagrams or sketches</li> <li>safe work procedures related to the servicing of final drive drivelines and associated components</li> <li>regulatory/legislative requirements pertaining to the automotive industry, including Australian Design Rules</li> <li>engineer's design specifications and instructions</li> <li>organisation work specifications and requirements</li> <li>instructions issued by authorised enterprise or external persons</li> </ul>	

## Unit Sector(s)

Unit sector	Technical
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## **Co-requisite units**

Co-requisite units	

## **Competency field**

Competency field	