



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **AURT365130A Inspect vehicle systems and determine preferred repair action**

**Release: 1**

## AURT365130A Inspect vehicle systems and determine preferred repair action

### Modification History

Not Applicable

### Unit Descriptor

<b>Unit descriptor</b>	This unit covers the competence required to carry out an inspection of vehicle systems and determine repair and/or replacement methods.
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### Application of the Unit

<b>Application of the unit</b>	<p>This unit of competence should be contextualised to the qualification to which it is being applied.</p> <p>Work requires individuals to demonstrate discretion, judgement and problem-solving skills in managing own work activities and contributing to a productive team environment.</p> <p>Work is carried out in accordance with award provisions.</p>
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### Licensing/Regulatory Information

Not Applicable

### Pre-Requisites

<b>Prerequisite units</b>		

## Employability Skills Information

<b>Employability skills</b>	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	PERFORMANCE CRITERIA
1. Prepare to undertake inspection	1.1. Nature and scope of 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 and 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 calibration requirements for vehicle systems are sourced and support equipment is identified and prepared 1.6. Warnings in relation to working with vehicle systems are observed
2. Conduct inspection	2.1. Methods for inspection implemented in accordance with workplace procedures and manufacturer/component supplier specifications 2.2. Observations are noted during inspection 2.3. Documentation of observations are completed
3. Analyse inspection results	3.1. Results are compared with manufacturer/component supplier specifications to indicate compliance or non-compliance 3.2. Results are documented with evidence and supporting information 3.3. Preferred repair action is selected following analysis of options 3.4. Report, including repair recommendations, is prepared and forwarded to persons for action in accordance with workplace procedures

## Required Skills and Knowledge

<b>REQUIRED SKILLS AND KNOWLEDGE</b>
This section describes the skills and knowledge required for this unit.
<b>Required skills</b>
<ul style="list-style-type: none"> <li>• apply research and interpretive skills sufficient to locate, interpret and apply manufacturer/component supplier procedures, workplace policies and procedures</li> </ul>

**REQUIRED SKILLS AND KNOWLEDGE**

- apply analytical skills 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
- capacity to apply problem-solving strategies in purposeful ways, both in situations where the problem and solution are clearly evident and in situations requiring critical thinking and a creative approach to achieve an outcome
- 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 determination of repair action, including the use of specialist tooling, measuring equipment, computerised technology and communication devices and the documenting/recording of results

**Required knowledge**

A working knowledge of:

- OH&S and environmental regulations/requirements, equipment, material and personal safety requirements
- dangers of working with vehicles and equipment
- operating principles vehicle systems and their relationship to each other
- inspection procedures
- repair and replacement procedures
- enterprise quality procedures
- work organisation and planning processes

## Evidence Guide

<b>EVIDENCE GUIDE</b>	
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.	
<b>Overview of assessment</b>	
<b>Critical aspects for assessment and evidence required to demonstrate competency in this unit</b>	<p>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:</p> <ul style="list-style-type: none"> <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>• conducting inspection of a range of vehicle systems in accordance with workplace requirements</li> <li>• interpreting inspection results</li> <li>• analysing repair options and selecting the most appropriate option</li> <li>• completing report, including repair recommendations</li> <li>• vehicle presentation to customer in compliance with workplace requirements</li> </ul>
<b>Context of, and specific resources for assessment</b>	<p>Application of competence is to be assessed in the workplace or simulated worksite</p> <p>Assessment is to occur using standard and authorised work practices, safety requirements and environmental constraints</p> <p>Assessment is to comply with regulatory requirements, including Australian Standards</p> <p>The following resources should be made available:</p> <ul style="list-style-type: none"> <li>• workplace location or simulated workplace</li> <li>• material relevant to the determination of repair action</li> <li>• equipment, hand and power tooling appropriate to the determination of repair action</li> <li>• activities covering mandatory task requirements</li> <li>• specifications and work instructions</li> </ul>
<b>Method of assessment</b>	<p>Assessment must satisfy the endorsed assessment guidelines of the automotive industry's RS&amp;R Training Package</p> <p>Assessment methods must confirm consistency and accuracy of performance together with application of underpinning</p>

**EVIDENCE GUIDE**

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

**EVIDENCE GUIDE****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.

**Methods**

Methods are to include:

- inspection and testing
- fault finding using aural, visual and operational assessments for defects
- repair option analysis
- report writing

**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/regulation/codes of practice and workplace policies and practices

**Safe operating procedures**

Safe operating procedures are to include, but are not limited to 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



<b>RANGE STATEMENT</b>	
<b>Emergency procedures</b>	Emergency procedures related to this unit are to include but may not be limited to emergency shutdown and stopping of equipment, extinguishing fires, enterprise first aid requirements and site evacuation
<b>Environmental requirements</b>	Environmental requirements are to include but are not limited to waste management, noise, dust and clean-up management
<b>Quality requirements</b>	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
<b>Statutory/regulatory authorities</b>	Statutory/regulatory authorities may include Federal, State/Territory and local authorities administering acts, regulations and codes of practice
<b>Tooling and equipment</b>	Tooling and equipment may include hand tooling, meters, gauges and load testing devices
<b>Materials</b>	Materials may include cleaning materials
<b>Communications</b>	Communications are to include, but are not limited to verbal and visual instructions and fault documenting and may include site specific instructions, written instructions, plans or instructions related to job/task, telephones and pagers
<b>Information/documents</b>	Sources of information/documents may include: <ul style="list-style-type: none"><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 determination of repair action</li><li>• regulatory/legislative requirements pertaining to automotive industry, including Australian Design Rules</li><li>• engineer's design specifications and instructions</li></ul>

**RANGE STATEMENT**

	<ul style="list-style-type: none"><li>• organisation work specifications and requirements</li><li>• instructions issued by authorised enterprise or external persons</li><li>• Australian Standards</li></ul>
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**Unit Sector(s)**

<b>Unit sector</b>	Technical
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**Co-requisite units**

<b>Co-requisite units</b>		

**Competency field**

<b>Competency field</b>	
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