

AURATA2001 Identify basic automotive faults using troubleshooting processes

Release 1



AURATA2001 Identify basic automotive faults using troubleshooting processes

Modification History

Release	Comment
Release 1	Replaces AURC252103A Apply basic automotive troubleshooting processes
	Performance Criteria updated to reflect the automotive workplace

Unit Descriptor

Unit descriptor	This unit describes the performance outcomes required to conduct troubleshooting processes to identify common automotive faults or problems based on evidence provided by customers.	
	Licensing, legislative, regulatory or certification requirements may apply to this unit in some jurisdictions. Users are advised to check with the relevant regulatory authority.	

Application of the Unit

1	Work applies to the identification of basic automotive faults of motorcycles, light vehicles, heavy commercial vehicles, agricultural
	equipment, mobile plant and other industrial environments.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

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Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

essential outcomes of a unit of competency.	Performance criteria describe the required performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge and/or 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		
Identify nature of the fault or problem	1.1. Questioning techniques are applied to determine nature of the customer enquiry		
	1.2. Workplace health and safety (WHS) requirements are observed and applied throughout the work		
	1.3. Information relating to the <i>fault</i> or problem is gathered, documented and confirmed with customer		
	1.4. <i>Troubleshooting process options</i> are researched and those most appropriate to the circumstances are selected		
	1.5. Appropriate tools and equipment are selected and prepared		
2. Identify fault using troubleshooting processes	2.1. Automotive system or component relating to the fault or problem is identified		
	2.2. Troubleshooting processes are performed according to workplace procedures and without causing damage to components or systems to identify the likely cause of the fault or problem		
	2.3.Report is forwarded to persons for action according to workplace procedures		
3. Clean up work area and finalise work processes	3.1. Final inspection is made to ensure work is to workplace expectations		
	3.2.Tools and equipment are checked and stored according to workplace expectations		
	3.3. Workplace documentation is completed according to workplace procedures		

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Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- communication skills to:
 - clarify workplace instructions and determine job requirements
 - gain information from appropriate persons and assistance as required
- learning skills to identify sources of information, assistance and expert knowledge
- literacy skills to:
 - read, interpret and follow information on written job instructions, specifications, standard operating procedures, charts, lists, drawings and other applicable reference documents
 - follow workplace documentation, such as codes of practice or operating procedures
 - document work performed during troubleshooting operations
- numeracy skills to assess tolerances and apply accurate measurements
- planning and organising skills to ensure tasks are completed within an acceptable timeframe
- problem-solving skills to seek information and assistance as required
- self-management skills to:
 - select and use appropriate equipment, materials, processes and procedures
 - follow workplace documentation, such as codes of practice or operating procedures
- teamwork skills to apply knowledge of own role to complete activities efficiently to support team activities and tasks
- technical skills to use tools and equipment relating to troubleshooting processes
- technology skills to use technology to collect and provide information

Required knowledge

- WHS regulations, requirements, equipment and material, and personal safety requirements
- identification of basic automotive systems
- basic troubleshooting techniques and processes, including:
 - customer questioning skills to identify vehicle system in which fault lies
 - use of simple diagnostic charts
- procedures for reporting and documenting findings

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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, the Range Statement and the Assessment Guidelines for the Training Package.

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Overview of assessment			
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The evidence required to demonstrate competency in this unit must be relevant to workplace operations and satisfy all of the requirements of the performance criteria and required skills and knowledge.		
	A person who demonstrates competency in this unit must be able to:		
	observe safety procedures and requirements		
	 select methods and techniques appropriate to the circumstances identify a range of basic automotive faults 		
	conduct troubleshooting procedures according to workplace, manufacturer and component supplier requirements		
	complete workplace documentation according to workplace requirements.		
Context of, and specific resources for assessment	Competency is to be assessed in the workplace or a simulated workplace environment that accurately reflects performance in a real workplace setting.		
	Assessment is to occur:		
	using standard workplace practices and procedures		
	• following safety requirements		
	applying environmental constraints.		
	Assessment is to comply with relevant:		
	regulatory requirements		
	Australian standards		
	industry codes of practice.		
	The following resources must be made available for the assessment of this unit:		
	 workplace location or simulated workplace vehicles and components with basic faults relevant to the qualification being sought 		
	 equipment appropriate for the troubleshooting of basic automotive faults 		
	• specifications and workplace instructions.		

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EVIDENCE GUIDE

Method of assessment

Assessment must satisfy the endorsed Assessment Guidelines of this Training Package.

Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with the application of required skills and knowledge.

Assessment methods must be by direct observation of tasks and include questioning on required skills and knowledge to ensure correct interpretation and application.

Competence in this unit may be assessed in conjunction with other units which together form part of a holistic work role.

Where applicable, reasonable adjustment must be made to work environments and training situations to accommodate the needs of diverse clients.

Assessment processes and techniques must be culturally sensitive and appropriate to the language, literacy and numeracy capacity of the candidate and the work being performed.

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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, 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.

Questioning techniques may include:	open and closed questionsfunnel, probing and leading questions.
Workplace health and safety (WHS) requirements may include:	 are those prescribed under legislation, regulations, codes of practice, and workplace policies and procedures may include: protective clothing and equipment use of tools and equipment handling of material use of fire-fighting equipment first aid equipment hazard control, including control of hazardous materials and toxic substances.
Troubleshooting process options may include:	 analysis of available information to provide a list of tests to perform use of diagnostic flowcharts
Fault may include:	 are basic in their scope may include: lighting steering, suspension, braking, engine, drivetrain or fuel system faults

Unit Sector(s)

Unit sector	Common			
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Co-requisite units

Not applicable.

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Competency field

Competency field

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