



Australian Government

AURTTA2010 Service and repair trailers up to 4.5 tonnes

Release 2

AURTTA2010 Service and repair trailers up to 4.5 tonnes

Modification History

Release	Comment
Release 1	Replaces AURT237272A Service and repair trailers up to 4.5 tonnes Unit code updated to meet policy requirements Reference to OHS legislation replaced with new WHS legislation
Release 2	Minor typographical errors corrected

Unit Descriptor

Unit descriptor	This unit of competency describes the skills and knowledge required to service and repair trailers with an aggregate trailer mass (ATM) of up to 4.5 tonnes. It requires the ability to identify and confirm work requirements, to use technical skills to service, repair and/or maintain trailers up to 4.5 tonnes, and to complete the work finalisation processes. Licensing, legislative, regulatory or certification requirements may apply to this unit in some jurisdictions. Users are advised to check with the relevant regulatory authority.
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Application of the Unit

Application of the unit	This unit applies to individuals who undertake and document the adjustment, servicing and repair of trailers with an ATM of up to 4.5 tonnes. This includes trailers of varying types and in varying environments.
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Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Not applicable.

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. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for work	1.1. Confirm nature and scope of work to be carried out 1.2. Locate workplace health and safety (WHS) and workplace environmental and sustainable procedures and practices applicable to the work 1.3. Source service procedures and relevant workshop manuals and manufacturer information 1.4. Access and interpret state and territory regulations and requirements 1.5. Check and prepare tools, equipment and materials 1.6. Decide service and/or repair method in accordance with WHS, environmental and industry regulations and guidelines, and enterprise procedures 1.7. Set up work area
2. Adjust trailer to suit individual applications	2.1. Identify trailer application 2.2. Use methods, equipment and tolerances suitable to the trailer application and in accordance with manufacturer specifications to adjust suspension and chassis 2.3. Carry out adjustment in accordance with manufacturer and component supplier specifications, and WHS and workplace environmental and sustainable procedures and practices
3. Test, service, repair and/or maintain trailer	3.1. Select appropriate diagnostic test 3.2. Undertake testing of trailer 3.3. Identify service, repair and/or maintenance requirements 3.4. Carry out brake adjustment, including handbrake 3.5. Carry out bleeding of hydraulic braking system 3.6. Carry out service, repair and/or maintenance using methods, equipment and tolerances suitable to the trailer application in accordance with manufacturer specifications and WHS and workplace environmental and sustainable procedures and practices
4. Verify system	4.1. Apply and release brakes a number of times 4.2. Test trailer lighting circuits 4.3. Undertake visual and audible tests 4.4. Repair and eliminate identified issues 4.5. Organise for trailer to be tow tested

ELEMENT	PERFORMANCE CRITERIA
5. Clean up work area and maintain equipment	5.1.Clean and inspect equipment and tooling according to workplace requirements 5.2.Tag unserviceable equipment and faults identified in accordance with workplace requirements 5.3.Finalise and process work completion documentation, update customer and warranty information and give to appropriate persons, as required 5.4.Clean work area, dispose of waste and scrap, and store re-useable material, tools and equipment in accordance with workplace procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

Required skills include:

- technical skills to the level required to service, repair and/or maintain trailers and components up to 4.5 tonnes, including use of workplace computerised technology for the testing, reporting and recording of results
- communication skills to the level required to confirm work requirements and specifications, to communicate effectively regarding work requirements with supervisor, other workers and customers, to relate to people from a range of social, cultural and ethnic backgrounds and of varying physical and mental abilities, and to report work outcomes and problems
- literacy skills to the level required to understand information related to work orders, including common industry terminology, plans and safety procedures, to interpret technical information and specifications, and to complete workplace documents
- numeracy skills to the level required to correctly calculate time, assess tolerances, apply accurate measurements, calculate material requirements and establish quality checks
- problem-solving skills to the level required to identify technical and procedural problems to avoid planning and scheduling problems and time and material wastage
- team skills to the level required to work effectively and cooperatively with others to optimise workflow and productivity

Required knowledge

Required knowledge includes:

- types of load carrying trailers with a gross trailer mass rating (GTMR) or ATM up to 4.5 tonnes
- brake types
- electrical circuit types and related Australian Design Rules
- trailer service, repair and maintenance procedures applicable to the trailer type
- work organisation and planning processes
- transport regulations for each state and territory, including braking requirements for trailers with a GTMR or ATM up to 4.5 tonnes
- documenting and reporting requirements/procedures
- service and repair manuals (hard copy and electronic)
- manufacturer and component supplier specifications, including workshop manuals and repair guides related to the servicing and repairing of trailers up to 4.5 tonnes and components

REQUIRED SKILLS AND KNOWLEDGE

- applicable commonwealth, state or territory legislation, regulations, standards and codes of practice, including WHS, personal safety and environment, relevant to the servicing and repairing of trailers up to 4.5 tonnes and components
- organisational policies and procedures, including quality requirements and reporting and recording procedures, related to servicing and repairing of trailers up to 4.5 tonnes and components

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

Assessors must be satisfied that the candidate can competently and consistently:

- observe safety procedures and requirements
- communicate effectively with others involved in or affected by the work
- select servicing and repair methods and techniques appropriate to the circumstances and trailer type
- complete preparatory activity in a systematic manner
- adjust, service, repair and maintain three (3) different types of trailers
- complete workplace and equipment records and workplace clean-up requirements
- present trailer to customer or for storage in compliance with work requirements.

Context of, and specific resources for assessment

- The application of competency is to be assessed in the workplace or a simulated environment that reflects as far as possible the actual working environment.
- Assessment is to occur using standard and authorised work practices, safety requirements and environmental constraints.
- Assessment is to comply with relevant regulatory requirements, including specified Australian standards.
- Where applicable, reasonable adjustment must be made to work environments and training situations to accommodate ethnicity, age, gender, demographics and disability.
- The following resources should be made available:
 - appropriate worksite
 - a range of trailers up to 4.5 tonnes requiring servicing, repairing and/or maintaining
 - specifications and work instructions
 - equipment, hand and power tooling appropriate to servicing, repairing and/or maintaining trailers up to 4.5 tonnes
 - relevant information, including manufacturer

EVIDENCE GUIDE	
	specifications.
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 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 its correct interpretation and application. • Assessment may be applied under project-related conditions (real or simulated) and require evidence of process. • Assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances. • 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	Assessment processes and techniques must be culturally sensitive and appropriate to the language and literacy capacity of the candidate and the work being performed.

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.	
Trailers	Trailers with a GTMR or ATM less than 4.5 tonnes may include: • boat trailers • car trailers

RANGE STATEMENT	
	• horse floats • plant trailers • farm trailers • mobile home carrier • motor cycle trailers • box trailers • caravan semi trailer • pig trailers • dog trailers
Servicing, repair and/or maintaining	Servicing, repair and/or maintaining may include: • minor adjustments • operational testing • replacement of fluids and filters
Tooling and equipment	Tooling and equipment may include: • hand tools • testing equipment, including multimeters • brake bleeding equipment • power tools • air tools • specialist tools and equipment • lubricating equipment • measuring equipment • pressure gauges • vacuum gauges • manufacturer special stools
Materials	Materials may include: • spare parts • lubricants • fluids • cleaning materials
Safe operating procedures	Safe operating procedures may include: • operational risk assessment and treatments • toxic substances • electrical safety • machinery movement and operation • manual and mechanical lifting and shifting • working in proximity to others

RANGE STATEMENT	
Information/documents	Information/documents may include: • verbal, written and graphical instructions issued by authorised internal and external persons • parts listing prices and catalogues • inventory systems • Repair Times manuals • material safety data sheets (MSDS) • diagrams or sketches • engineer's design specifications and instructions • manufacturer specifications • industry standards (e.g. American Boat and Yacht Council, National Marine, Manufacturer's Association and US Coast Guard) • Australian Road Transport (ARTSA) - Brake Code of Practice • Australian standards • workplace specifications and requirements • current driver's licence
Legislative requirements	Legislative requirements are to be in accordance with applicable commonwealth, state or territory legislation, regulations, certification requirements and codes of practice, and may include: • award and enterprise agreements • industrial relations • Australian standards • Australian Design Rules • confidentiality and privacy • WHS • the environment • equal opportunity • anti-discrimination • duty of care
WHS requirements	WHS requirements are to be in accordance with applicable commonwealth, state or territory legislation and regulations, and organisational safety policies and procedures, and may include: • personal protective equipment and clothing

RANGE STATEMENT	
	• safety equipment • first aid equipment • hazard and risk control • elimination of hazardous materials and substances • manual handling, including shifting, lifting and carrying • emergency procedures • road rules • safe driving policy
Environmental requirements	Environmental requirements may include: • waste management • noise • dust • clean-up management
Organisational policies and procedures	Organisational policies and procedures may include: • quality policies and procedures, including Australian standards • WHS, sustainability, environment, equal opportunity and anti-discrimination • manufacturer specifications and industry codes of practice • safe work procedures • reporting and recording procedures

Unit Sector(s)

Unit sector	Mechanical Miscellaneous
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Co-requisite units

Not applicable.

Competency field

Competency field	Technical
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