



Australian Government

AURETR1002 Test, service and maintain battery storage systems

Release 1

AURETR1002 Test, service and maintain battery storage systems

Modification History

Release	Comment
Release 1	Replaces AURE118671A Test, service and maintain battery storage systems Unit code updated to meet policy requirements Reference to OHS legislation replaced with new WHS legislation Licensing statement added to unit descriptor

Unit Descriptor

Unit descriptor	This unit covers the competence to inspect, service and maintain battery storage systems in on-site major earth moving and plant equipment. 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	Work requires individuals to demonstrate judgement and problem-solving skills in managing own work activities and contributing to a productive team environment.
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Licensing/Regulatory Information

Not applicable.

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 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
1. Prepare to undertake inspection	<p>1.1.Nature and scope of work requirements are identified and confirmed</p> <p>1.2.WHS requirements, including individual state/territory regulatory requirements and personal protection needs are observed throughout the work</p> <p>1.3.Procedures and information such as site procedures and specifications, and tooling are sourced</p> <p>1.4.Technical requirements for inspection are sourced and support equipment is identified and prepared</p> <p>1.5.Warnings in relation to working with batteries are observed</p>
2. Conduct inspection	<p>2.1.Methods for the conduct of inspection are implemented in accordance with workplace procedures and manufacturer/component supplier specifications</p> <p>2.2.Inspection results are compared with manufacturer/component supplier specifications</p> <p>2.3.Results are documented with evidence and supporting information and recommendations made</p> <p>2.4.Report is forwarded to persons for action in accordance with workplace procedures</p>
3. Prepare to service and maintain	<p>3.1.WHS requirements, including individual state/territory regulatory requirements and personal protection needs are observed throughout the work</p> <p>3.2.Procedures and information are identified and sourced</p> <p>3.3.Technical and tool requirements for servicing and maintenance are identified and support equipment is identified and prepared</p>
4. Carry out service and maintenance	<p>4.1.Methods for the conduct of service and/or maintenance are implemented in accordance with workplace procedures and manufacturer/component supplier specifications</p> <p>4.2.Adjustments made during service and/or maintenance are in accordance with manufacturer/component supplier specifications</p>
5. Clean up work area and maintain equipment	<p>5.1.Material that can be reused is collected and stored</p> <p>5.2.Waste and scrap is removed following workplace procedure</p> <p>5.3.Equipment and work area are cleaned and inspected for serviceable condition in accordance with workplace procedures</p> <p>5.4.Unserviceable equipment is tagged and faults identified in accordance with workplace requirements</p>

ELEMENT	PERFORMANCE CRITERIA
	<p>5.5.Operator maintenance is completed in accordance with manufacturer/component supplier specifications and site procedures</p> <p>5.6.Tooling and equipment is maintained in accordance with workplace procedures</p>

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- research and interpretive skills sufficient to locate, interpret and apply manufacturer/component supplier procedures, workplace policies and procedures
- analytical skills for identification and analysis of technical information
- plain English literacy and communication skills in relation to dealing with customers and team members
- questioning and active listening skills for example when obtaining information from customers
- oral communication skills sufficient to convey information and concepts to customers
- as applied to own work activities, including making good use of time and resources, sorting out priorities and monitoring one's own performance
- interacting 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
- use mathematical ideas and techniques to correctly calculate time, assess tolerances, apply accurate measurements, calculate material requirements and establish quality checks
- 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 workplace technology related to inspection, servicing and maintenance of battery storage systems, including use of specialist tooling, measuring equipment and communication devices and reporting/documenting of results

Required knowledge

A working knowledge of:

- WHS and environmental regulations/requirements, equipment, material and personal safety requirements
- dangers of working with battery testing equipment
- operating principles and layout of battery storage systems
- inspection procedures
- service and/or maintenance 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
- servicing and maintaining battery storage systems in accordance with manufacturer/component supplier and site requirements
- completing inspection in accordance with manufacturer/component supplier requirements
- completing work within workplace timeframes
- completing workplace documents.

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
- material relevant to inspection, servicing and maintenance of battery storage systems
- equipment, hand and power tooling appropriate to inspection, servicing and maintenance of battery storage systems
- activities covering mandatory task requirements
- specifications and work instructions.

Method of assessment

- Assessment must satisfy the endorsed assessment guidelines of AUR12 Automotive Industry Retail, Service and Repair Training Package.
- Assessment methods must confirm consistency and accuracy of

EVIDENCE GUIDE

	<p>performance together with application of underpinning knowledge.</p> <ul style="list-style-type: none">• 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 to be under the particular circumstance, and 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.
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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, 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.

WHS	WHS requirements are to be in accordance with legislation/regulations/codes of practice and enterprise safety policies and procedures, and may include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 and working in proximity to others and site visitors
Emergency procedures	Emergency procedures related to this unit are to include but may not be limited to: <ul style="list-style-type: none"> emergency shutdown and stopping of equipment, extinguishing fires, enterprise first aid requirements and site evacuation
Environmental requirements	Environmental requirements are to include but are not limited to: <ul style="list-style-type: none"> waste management, noise, dust and clean-up management
Quality requirements	Quality requirements are to include, but are not limited to: <ul style="list-style-type: none"> regulations, including Australian standards, internal company quality policy and standards and enterprise operations and procedures
Statutory/regulatory authorities	Statutory/regulatory authorities may include: <ul style="list-style-type: none"> federal, state/territory and local authorities administering acts, regulations and codes of practice
Tooling and equipment	Tooling and equipment may include:

RANGE STATEMENT	
	<ul style="list-style-type: none"> • hand tooling
Materials	Materials may include: <ul style="list-style-type: none"> • cleaning material
Communications	Communications are to include, but are not limited to: <ul style="list-style-type: none"> • verbal and graphical 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: <ul style="list-style-type: none"> • verbal or written and graphical instructions, signage, work schedules/plans/specifications, work bulletins, memos, material safety data sheets (MSDS), diagrams and sketches • safe work procedures related to inspection, servicing and maintenance of battery storage systems • regulatory/legislative requirements pertaining to 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 • Australian standards

Unit Sector(s)

Unit sector	Electrical
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Co-requisite units

Not applicable.

Competency field

Competency field	Technical - Electrical and Electronic
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