

Training Package	Automotive Industry Retail, Service and Repair (AUR05)	HSC Requirements and Advice
Unit title	Test, service and maintain battery storage systems	
Unit code	Unit descriptor	HSC Indicative Hours
AURE118671A	This unit covers the competence to inspect, service and maintain battery storage systems in on site major earth moving and plant equipment.	15

Evidence Guide

The evidence guide identifies critical aspects, knowledge and skills to be demonstrated to confirm competence for this unit. This is an integral part of the assessment of competence and should be read in conjunction with the Range Statement.

Critical aspects of evidence	Underpinning knowledge
<p>It is <u>essential</u> that competence in this unit signifies ability to transfer competence to changing circumstances and to respond to unusual situations in the critical aspects of:</p> <ul style="list-style-type: none"> • 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. 	<p>A working knowledge of:</p> <ul style="list-style-type: none"> • OH&S 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 cont/d

Context of assessment	Method of assessment	Specific resource requirements for this unit
<p>Application of competence <u>is to</u> be assessed in the workplace or simulated worksite.</p> <p>Assessment <u>is to</u> occur using standard and authorised work practices, safety requirements and environmental constraints.</p> <p>Assessment <u>is to</u> comply with regulatory requirements, including Australian Standards.</p>	<p>Assessment <u>must</u> satisfy the endorsed assessment guidelines of the automotive industry's RS&R [Retail, Service and Repair] Training Package.</p> <p>Assessment methods <u>must</u> confirm consistency and accuracy of performance together with application of underpinning knowledge.</p> <p>Assessment <u>must</u> be by direct observation of tasks, with questioning on underpinning knowledge and it must also reinforce the integration of key competencies.</p> <p>Assessment <u>may</u> be applied under project related conditions and require evidence of process.</p> <p>Assessment <u>must</u> confirm a reasonable inference that competence is able to be under the particular circumstance, and is able to be transferred to other circumstances.</p> <p>It is <i>preferable</i> 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.</p>	<p>The following <u>should</u> be made available:</p> <ul style="list-style-type: none"> • 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.
		Relationship to other units
		<p>Competence in this unit may be assessed in conjunction with other functional units which together form part of the holistic work role.</p>

Specific key competencies, underpinning and employability skills required to achieve the performance criteria

These include a number of processes learned throughout work and life, which are required in most jobs. Some of these are covered by the national key competencies, although others may be added. The details below highlight how these competencies are applied in the attainment of this unit.

Application of the key competencies in this unit are to satisfy the nominated level in which:

Level 1 – relates to working effectively within set conditions and processes;

Level 2 – relates to management or facilitation of conditions or processes; and

Level 3 – relates to design, development and evaluation of conditions or process.

How will the candidate apply the following key competency in this unit? The candidate will need to:

Collect, analyse and organise information	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.	Level 1
Communicate ideas and 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.	Level 1
Plan and organise activities	As applied to own work activities, including making good use of time and resources, sorting out priorities and monitoring one's own performance.	Level 1
Work with others and in a team	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.	Level 1
Use mathematical ideas and techniques	Use mathematical ideas and techniques to correctly calculate time, assess tolerances, apply accurate measurements, calculate material requirements and establish quality checks.	Level 1
Solve problems	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.	Level 1
Use technology	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.	Level 1

Element	Performance Criteria	Range Statement
1 Prepare to undertake inspection	1.1 Nature and scope of work requirements are identified and confirmed.	<p>The Range Statement provides advice to interpret the scope and context of this unit of competence, allowing for differences between enterprises and workplaces. It relates to the unit as a whole and facilitates holistic assessment. The following variables may be present for this particular unit:</p> <p>Unit scope</p> <ul style="list-style-type: none"> battery storage systems covered by this unit are for on site major earth moving and plant equipment. <p>Unit context</p> <ul style="list-style-type: none"> work <u>requires</u> individuals to demonstrate judgement and problem-solving skills in managing own work activities and contributing to a productive team environment work <u>is</u> carried out in accordance with award provisions. <p>Safety (OH&S)</p> <ul style="list-style-type: none"> OH&S requirements <u>are to</u> be in accordance with legislation/regulations/ codes of practice and enterprise safety policies and procedures. This <i>may</i> 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 <u>is to</u> include that prescribed under legislation/regulations/codes of practice and workplace policies and practices safe operating procedures <u>are to</u> include, but are not limited to 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 <u>related to</u> 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. <p>Environmental requirements</p> <ul style="list-style-type: none"> environmental requirements <u>are to</u> include but are not limited to waste management, noise, dust and clean up management. <p>Quality requirements</p> <ul style="list-style-type: none"> quality requirements <u>are to</u> include, but are not limited to regulations, including Australian Standards, internal company quality policy and standards and enterprise operations and procedures.
	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 site procedures and specifications, and tooling are sourced	
	1.4 Technical requirements for inspection are sourced and support equipment is identified and prepared.	
	1.5 Warnings in relation to working with batteries are observed.	
2 Conduct inspection	2.1 Methods for the conduct of inspection are implemented in accordance with workplace procedures and manufacturer/ component supplier specifications.	
	2.2 Inspection results are compared with manufacturer/ component supplier specifications.	
	2.3 Results are documented with evidence and supporting information and recommendations made.	
	2.4 Report is forwarded to persons for action in accordance with workplace procedures	
3 Prepare to service and maintain	3.1 OH&S requirements, including individual State/Territory regulatory requirements and personal protection needs are observed throughout the work.	
	3.2 Procedures and information are identified and sourced.	
	3.3 Technical and tool requirements for servicing and maintenance	Statutory/regulatory authorities

Element	Performance Criteria	Range Statement
	are identified and support equipment is identified and prepared.	<ul style="list-style-type: none"> statutory/regulatory authorities <i>may</i> include Federal, State and local authorities administering acts, regulations and codes of practice.
4. Carry out service and maintenance	4.1 Methods for the conduct of service and/or maintenance are implemented in accordance with workplace procedures and manufacturer/component supplier specifications.	<p>Tooling and equipment</p> <ul style="list-style-type: none"> tooling and equipment <i>may</i> include hand tooling. <p>Materials</p> <ul style="list-style-type: none"> materials <i>may</i> include cleaning material. <p>Communications</p> <ul style="list-style-type: none"> communications <u>are to</u> include, but are not limited to verbal and graphical instructions and fault reporting and <i>may</i> include site specific instructions, written instructions, plans or instructions related to job/task, telephones and pagers.
	4.2 Adjustments made during service and/or maintenance are in accordance with manufacturer/component supplier specifications	
5 Clean up work area and maintain equipment	5.1 Material that can be reused is collected and stored.	<p>Information</p> <ul style="list-style-type: none"> information sources <i>may</i> include, but are not limited to: <ul style="list-style-type: none"> - verbal or written and graphical instructions, signage, work schedules/plans/specifications, work bulletins, memos, material safety data sheets, 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.
	5.2 Waste and scrap is removed following workplace procedure.	
	5.3 Equipment and work area are cleaned and inspected for serviceable condition in accordance with workplace procedures.	
	5.4 Unserviceable equipment is tagged and faults identified in accordance with workplace requirements	
	5.5 Operator maintenance is completed in accordance with manufacturer/component supplier specifications and site procedures.	
	5.6 Tooling and equipment is maintained in accordance with workplace procedures.	