



Australian Government

CUALGT302 Repair and maintain lighting equipment

Release: 2

CUALGT302 Repair and maintain lighting equipment

Modification History

Release	Comments
Release 2	This version released with CUA Creative Arts and Culture Training Package version 2.0. Updated assessment conditions section. Updated modification history section to reflect changed name of training package.
Release 1	This version first released with CUA Creative Arts and Culture Training Package version 1.0.

Application

This unit describes the performance outcomes, skills and knowledge required to undertake basic repairs to and maintain lighting equipment and accessories used in the screen, media, entertainment and events industries.

At this level, individuals are required to use some discretion and judgement and operate under broad supervision within an established framework of plans and procedures.

In some States and Territories of Australia, a restricted electrical licence is required to repair and maintain production equipment. Restricted electrical licences allow a person to carry out electrical work incidental to a trade. Incidental work may include fault-finding on equipment or changing like for like equipment by disconnecting and reconnecting the fixed wiring. It does not include any other changes to the fixed wiring.

Testing and tagging of electrical equipment must be carried out by a person with the relevant certificate of competency in accordance with the performance specifications of:

- Australian Standard 3760: 200 In-service safety inspection and testing of electrical equipment
- Australian Standard 3002: 1985 Electrical installations - shows and carnivals.

In some States and Territories a licensed electrician would be required to undertake the tasks outlined in Element 2.

Unit Sector

Media and entertainment production – lighting

Elements and Performance Criteria

Elements <i>Elements describe the essential outcomes.</i>	Performance Criteria <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Undertake routine maintenance tasks	1.1 Clean and maintain equipment, cables and accessories according to organisational procedures 1.2 Conduct safety checks on equipment according to manufacturer instructions and work health and safety (WHS) guidelines 1.3 Check and replace spares and consumables and ensure production equipment is ready and available to productions at specified locations 1.4 Complete required documentation to ensure accurate records of checked and maintained items, and provide copies to relevant personnel
2. Undertake repair tasks	2.1 Recognise faults and safely shut down equipment if necessary, following manufacturer instructions and organisational procedures 2.2 Isolate fault to specific equipment or parts of equipment using fault detection procedures, and determine nature of repair requirements 2.3 Tag faulty production equipment according to organisational procedures 2.4 Make minor repairs to faulty equipment according to safety requirements, manufacturer instructions and level of own responsibility 2.5 Refer complex repairs to technical specialists or licensed personnel 2.6 Where appropriate, have technical specialists pilot repairs from a remote location 2.7 Discuss faults and repair needs with technical specialists, demonstrating correct use of terminology
3. Document work activity	3.1 Undertake simple modifications to equipment, ensuring current safety measures and deadlines are met 3.2 Complete documentation according to organisational procedures and distribute to relevant personnel as required 3.3 Review repair and maintenance activities to ensure compliance with legislation

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance Criteria	Description
Reading	1.2	Interprets service documentation and manuals
Writing	1.4, 3.2	- Completes fault and maintenance reports - Tags or labels equipment according to its repair status
Oral communication	1.4, 2.5, 2.6, 2.7, 3.2	- Obtains information by listening and questioning - Uses clear language to contribute information and express requirements
Navigate the world of work	1.1, 1.2, 1.4, 2.1, 2.3, 2.4, 2.5, 2.7, 3.1, 3.2, 3.3	- Follows workplace protocols and safety procedures - Understands and completes main tasks and responsibilities, within the boundaries of own role
Interact with others	1.4, 2.5, 2.6, 2.7, 3.2	Works collaboratively with those involved in staging shows or events
Get the work done	1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2	- Adopts a methodical and logical approach to completing basic repairs to lighting equipment - Meets work deadlines - Re-assembles and re-aligns lighting equipment under repair - Recognises and takes responsibility for addressing predictable, and some less predictable, problems when diagnosing and repairing lighting equipment

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
CUALGT302 Repair and maintain lighting equipment (Release	CUALGT302 Repair and maintain lighting	Updated assessment conditions section. Updated	Equivalent unit

Code and title current version	Code and title previous version	Comments	Equivalence status
2)	equipment (Release 1)	modification history section to reflect changed name of training package.	

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1db201d9-4006-4430-839f-382ef6b803d5>

Assessment Requirements for CUALGT302 Repair and maintain lighting equipment

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Performance Evidence

Evidence of the ability to:

- use appropriate tools to undertake routine repairs and maintenance on lighting equipment and accessories
- apply logical fault detection procedures
- follow work health and safety procedures when testing and maintaining lighting equipment
- locate relevant information in service and technical manuals when undertaking repair and maintenance tasks
- work collaboratively.

Note: If a specific volume or frequency is not stated, then evidence must be provided for each of the above points at least once.

Knowledge Evidence

To complete the unit requirements the individual must:

- explain typical maintenance needs and schedules for commonly used lighting equipment
- explain the type of cleaning agents to use with different equipment
- explain techniques and processes for detecting and repairing common faults in lighting equipment
- describe common spare parts and sub-assemblies used when repairing and maintaining lighting equipment
- explain the consequences of not operating and maintaining lighting equipment in optimal condition

- explain how the following electrical concepts apply when repairing and maintaining lighting equipment:
 - voltage
 - current resistance
 - insulation
 - power sources (AC/DC)
- explain the following legal and licensing issues that impact on the repair and maintenance of equipment:
 - the role of the restricted electrical licence
 - testing and tagging certification
 - limitations on the type of work that can be undertaken without a licence
- describe duty of care and public safety issues in relation to the safe use of lighting equipment.

Assessment Conditions

Assessment must be conducted in a safe environment where evidence gathered demonstrates consistent performance of typical activities experienced in creative arts industry environments. The assessment environment must include access to productions that require lighting.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational educational and training legislation, frameworks and/or standards.

Links

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