



Australian Government

CUALGT512 Manage installation of lighting systems

Release: 1

CUALGT512 Manage installation of lighting systems

Modification History

Release	Comments
Release 1	This version first released with CUA Creative Arts and Culture Training Package Version 5.0.

Application

This unit describes the skills and knowledge required to manage the installation and set-up of equipment and systems required to implement lighting designs for productions in the screen, media, entertainment and events industries. It involves organising lighting resources and supervising the installation process for lighting in live production environments.

The unit applies to those who display a high level of initiative, judgement and responsibility as they plan, organise and manage resources needed to install lighting systems in venues.

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 required 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.

Users are advised to check with the relevant licensing authority for requirements.

Unit Sector

Media and Entertainment Production – Lighting

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan installation of	1.1 Confirm lighting requirements in consultation with required

ELEMENT	PERFORMANCE CRITERIA
lighting systems	personnel 1.2 Conduct site or venue inspections to identify issues to be incorporated into planning of lighting installation and operations 1.3 Plan lighting control systems according to requirements outlined in production documentation 1.4 Create a list of resources needed to develop lighting control systems that meet production requirements 1.5 Develop contingency plans to minimise impact of unexpected technical difficulties 1.6 Perform job safety analysis of tasks according to health and safety requirements 1.7 Develop and document a work plan for installing lighting systems according to requirements
2. Organise resources	2.1 Develop realistic expenditure estimates that conform to budget allocations 2.2 Obtain required resources according to organisational procedures 2.3 Identify and resolve potential budget overruns 2.4 Organise crew in line with industry award guidelines 2.5 Organise the services of licensed personnel as required
3. Supervise the installation process	3.1 Supervise the connection of control systems 3.2 Monitor progress of lighting system installation against work plans and implement contingency plans as required 3.3 Confirm all work activities comply with health and safety requirements 3.4 Test aspects of lighting system installation on a regular basis 3.5 Identify faults in lighting equipment and accessories 3.6 Review finished installation with required personnel and make adjustments as required

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Reading	- Interprets lighting design plans and specifications - Demonstrates comprehension of written material relating to the

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	realisation of lighting designs
Writing	• Produces written material relating to the realisation of lighting designs
Oral communication	• Uses clear language to communicate effectively with others
Numeracy	• Performs budget calculations
Self-management	• Works independently and collectively with a strong sense of responsibility for goals, plans, decisions and outcomes • Follows workplace protocols and safety procedures • Manages time efficiently to meet work deadlines
Teamwork	• Establishes and maintains effective work relationships • Leads the installation of lighting systems in a proactive manner
Planning and organising	• Manages work activities and communication with personnel • Resolves issues, leveraging technical knowledge and experience
Initiative and enterprise	• Applies innovative approaches to enhance work practices and outcomes
Technology	• Uses standard word processing and spreadsheet applications to prepare lighting documentation

Unit Mapping Information

Supersedes and is equivalent to CUALGT502 Manage installation of lighting systems.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for CUALGT512 Manage installation of lighting systems

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- plan and supervise the installation of a lighting system for at least one production or event.

In the course of the above, the candidate must:

- document a work plan for implementing the lighting designs, that include contingency strategies
- apply effective problem-solving techniques to the process of installing lighting systems
- work collaboratively with lighting and production team during the planning and installation process

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- techniques for planning work when installing lighting systems into venues
- ways to address issues and challenges that typically arise when installing lighting systems
- safety requirements when installing lighting systems for productions and events
- industry trends and developments that impact on lighting operations
- features of lighting control systems that include DMX control systems
- where to source lighting equipment and accessories
- use of lighting equipment and accessories to achieve different lighting effects.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- venues where lighting systems need to be installed for productions
- workplace documentation.

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

Links

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