



Australian Government

CUALGT411 Operate complex lighting

Release: 1

CUALGT411 Operate complex lighting

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 use the full capabilities of contemporary lighting systems in ways that are consistent with the aesthetic vision of productions in the screen, media, entertainment and events industries. It involves installing, programming and operating lighting consoles with advanced features and fixtures

The unit applies to those who conduct complex lighting operations, working autonomously in a team environment. They may also be responsible for supervising others.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

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. Determine production requirements	1.1 Review production documentation to establish timelines and creative and technical parameters for work 1.2 Liaise with required personnel to determine scope of lighting requirements and production parameters 1.3 Assess equipment capabilities and deficiencies
2. Connect and format advanced fixtures	2.1 Check console fixture library to confirm inventory is in working order 2.2 Connect console to advanced fixtures using control protocols and according to designer's control requirements 2.3 Test the capabilities of advanced fixtures 2.4 Set up soft patch required for productions

ELEMENT	PERFORMANCE CRITERIA
	2.5 Format palettes for advanced fixtures according to design requirements 2.6 Maintain electronic and paper plots to take account of changes to original set-up
3. Program consoles	3.1 Assess protocol, program type and connectivity of external source material for compatibility with main console 3.2 Complete required backups of external source material prior to transfer to main console 3.3 Assess source material and determine capabilities of main console 3.4 Set up main console and external device, transfer material and check that transfer was successful
4. Plot and operate cues	4.1 Consult with required personnel to determine the cue types and effects required 4.2 Record cues that include advanced fixture types, standard cues and effects within agreed timeframe 4.3 Create, use and recall palettes 4.4 Participate in technical rehearsals and discussions to test cues and effects 4.5 Modify cues as required 4.6 Update cue sheets and other documentation accordingly 4.7 Operate cues during shows to create the required lighting effects 4.8 Resolve operational problems with lighting with minimal disruption to performances
5. Complete post-show procedures	5.1 Power down and disassemble equipment safely 5.2 Pack and store equipment and accessories according to safety regulations and production requirements 5.3 Clean and restore work environment to previous condition 5.4 Contribute to production evaluations and implement recommendations 5.5 Seek feedback from required personnel on own work performance and note areas for improvement

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
Learning	Seeks the views of others to identify ways to improve own performance
Reading	Interprets production documentation in relation to own duties
Writing	Prepares and updates workplace documentation
Oral communication	Discusses ideas and solutions in relation to lighting operations
Numeracy	- Uses numerical features of lighting desks - Completes simple mathematical calculations and memorises numbers for channel selection - Times cues
Self-management	- Meets work deadlines - Follows workplace protocols and safety procedures
Teamwork	Works collaboratively to determine and complete task requirements
Problem solving	- Adopts a methodical and logical approach to setting up lighting equipment, inputting cue data and operating lighting during performances - Takes responsibility for various issues that may arise in the production setting
Technology	- Operates the full range of features of complex lighting consoles - Uses standard word processing and spreadsheet applications to prepare lighting documentation
Initiative and enterprise	Demonstrates a commitment to improvement by contributing to evaluations of lighting operations

Unit Mapping Information

Supersedes and is equivalent to CUALGT401 Operate complex lighting.

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 CUALGT411 Operate complex lighting

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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:

- operate complex lighting for at least one production according to requirements.

In the course of the above, the candidate must:

- record lighting cues to produce a wide range of effects
- connect and format advanced fixtures to lighting control systems
- meet work deadlines
- work collaboratively with others involved in the lighting operations.

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:

- how lighting effects can be used to express mood in a performance context
- issues and challenges that typically arise when producing lighting effects to meet design concepts, and creative and workable strategies to address them
- lighting control concepts and advanced fixtures used with lighting systems
- colour recognition and the range of colour media used to produce lighting effects
- documentation and backup systems used in conjunction with lighting control
- basics of electronics and electricity in relation to lighting operations
- safety requirements related to operating lighting for productions and events.

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 live performances that require complex lighting control systems.

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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