



Australian Government

CUALGT401 Operate complex lighting

Release: 2

CUALGT401 Operate complex lighting

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 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.

Individuals who apply these skills work autonomously in a team environment as they take responsibility for setting up, programming and operating lighting consoles with advanced features and fixtures. 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

Elements	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 creative and technical parameters, as well as timelines for work 1.2 Liaise with relevant personnel to determine scope of lighting requirements and production parameters 1.3 Assess the capabilities of equipment to deliver required lighting effects and find ways to overcome deficiencies as required

2. Connect and format advanced fixtures	2.1 Check console fixture library to ensure correct inventory exists and is operational 2.2 Connect console to advanced fixtures through appropriate control protocols and check to ensure designer's control requirements can be achieved 2.3 Test the capabilities of advanced fixtures through experimentation 2.4 Set up soft patch required for productions to ensure advanced fixtures are connected to appropriate control surfaces 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 to receive pre-recorded material from external sources	3.1 Assess protocol, program type and connectivity of external source material for compatibility with main console 3.2 Complete appropriate backups of external source material prior to transfer to main console 3.3 Assess the need for changes to source material and determine whether changes can be made on external device 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 In consultation with relevant personnel, 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 and update cue sheets and other documentation accordingly 4.6 Operate cues during shows to create the required lighting effects 4.7 Resolve operational problems with lighting with minimal disruption to performances
5. Complete post-show procedures	5.1 Execute power down and disassemble equipment safely 5.2 Pack and store equipment and accessories according to safety regulations and production requirements 5.3 Clean work environment after use, and restore environment to

	previous condition 5.4 Contribute to evaluations of productions and implement recommendations aimed at improving effectiveness of lighting operations 5.5 Seek feedback from relevant personnel on own work performance and note areas for improvement
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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
Learning	5.5	Seeks the views of others to identify ways to improve own performance
Reading	1.1	Interprets production documentation in relation to own duties
Writing	2.6, 4.5	Prepares and updates workplace documentation
Oral communication	1.2, 4.1, 4.4, 5.4, 5.5	Discusses ideas and solutions in relation to lighting operations
Numeracy	4.2, 4.5	- Uses numerical features of lighting desks - Completes simple mathematical calculations and memorises numbers for channel selection - Times cues
Navigate the world of work	1.1, 4.2, 4.5, 5.1, 5.2	Follows workplace protocols and safety procedures
Interact with others	1.2, 4.1, 4.4, 5.4, 5.5	Works collaboratively to determine and complete task requirements
Get the work done	1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 5.1, 5.2, 5.3, 5.4	- Adopts a methodical and logical approach to setting up lighting equipment, inputting cue data and operating lighting during performances - Takes responsibility for addressing predictable, and some less predictable, problems in complex lighting operations for shows or events - Meets work deadlines

		• Demonstrates a commitment to improvement by contributing to evaluations of lighting operations • Operates the full range of features of complex lighting consoles • Uses standard word processing and spreadsheet applications to prepare lighting documentation
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Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
CUALGT401 Operate complex lighting (Release 2)	CUALGT401 Operate complex lighting (Release 1)	Updated assessment conditions section. Updated modification history section to reflect changed name of training package.	Equivalent unit

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 CUALGT401 Operate complex lighting

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Performance Evidence

Evidence of the ability to:

- record lighting cues to produce a wide range of effects for at least two productions
- connect and format advanced fixtures to lighting control systems
- operate a complex lighting control system during at least two performances
- meet work deadlines
- 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:

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

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 live performances that require complex lighting control systems.

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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