



Australian Government

CUALGT413 Set up and operate lighting cues and effects

Release: 1

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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 set up a lighting control system and use the more complex functions of a console for lighting cues and effects.

The unit applies to those who record and implement lighting schemas across a diverse range of productions. They work collaboratively with lighting designers and directors as part of a production team, and as experienced lighting technicians may supervise junior lighting technicians.

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. Connect and format control system for productions	1.1 Connect dimmers to control desk or console using control protocols 1.2 Connect to peripheral accessories and control devices, display, storage and printing equipment 1.3 Check system for nature of soft patch from previous production according to organisational requirements 1.4 Integrate geographic, grouping, scaling and use of peripheral accessories into the patching process 1.5 Check dimmer reception of data and operation meets required technical parameters of production 1.6 Complete set-up tasks according to work health and safety

ELEMENT	PERFORMANCE CRITERIA
	(WHS) requirements 1.7 Test control systems for overall functionality, and resolve problems or escalate as required 1.8 Establish, connect and test remote controls for required production personnel
2. Plot and operate advanced cue types	2.1 Liaise with required production personnel regarding production elements, lighting capabilities and cue types 2.2 Make the elements required for the cue type available, and record them 2.3 Demonstrate cue types to required production personnel and modify cues and required documentation
3. Plot and operate effects	3.1 Discuss types of effects required and the console capacity to produce them with required production personnel 3.2 Use the effects menu, demonstrating effects to colleagues as required 3.3 Identify and record the sequence of steps needed to achieve chosen effect 3.4 Demonstrate effects to required production personnel, make modifications to effects and documentation and rehearse with required items and personnel
4. Maintain lighting control system during production	4.1 Check operational aspects of lighting console, lighting cues and effects, and back-up system are correctly prepared according to WHS requirements 4.2 Maintain lighting cues and effects throughout production to meet creative and technical requirements 4.3 Identify lighting problems and faults promptly and according to WHS requirements

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 relevant documentation to determine and plan requirements
Writing	Uses clear and specialised language, specific terminology and structure and format in written communications
Oral	Uses clear and required language to express requirements, provide

SKILL	DESCRIPTION
Communication	- clear verbal and non-verbal cues, and brief colleagues on lighting cues and effects - Participates in an exchange of information and ideas using listening and questioning techniques
Numeracy	- Calculates technical requirements - Measures and tests lighting control system components - Interprets numbers for channel selections - Enters accurate data into cue sheets and automated systems
Self-management	- Understands nature and purpose of own role and associated responsibilities - Follows workplace safety protocols and procedures and enterprise requirements - Identifies solutions to problems quickly and proactively - Implements decisions within scope of responsibility
Teamwork	Selects and uses communication methods and works collaboratively with others
Planning and organising	- Adopts a systematic approach to planning and implementing tasks required to set up and operate a complex lighting control system - Plans for and uses a variety of colour media in lighting

Unit Mapping Information

Supersedes and is equivalent to CUALGT403 Set up and operate lighting cues and effects.

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 CUALGT413 Set up and operate lighting cues and effects

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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 lighting cues and effects for at least one live production.

In the course of the above, the candidate must:

- explore options for implementing lighting cues and effects, using a diverse range of techniques, and operating and interpreting production, creative and technical information
- set up, record and operate lighting cues and effects using the full range of console features safely and effectively according to production documentation, performance requirements, organisational instructions and safety procedures
- test lighting cues and effects and associated equipment are prepared and operational pre-production
- make decisions about lighting operations quickly and effectively
- observe dimmer control protocols during production, including those related to advanced features
- identify problems and faults in equipment and operations prior to and during production and resolve in a timely and safe manner within scope of own role
- collaborate effectively with creative and technical team members
- produce and adjust documentation throughout the process according to enterprise procedures.

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:

- key features and purpose of basic elements of the lighting design process and their impact on the set-up of lighting control systems
- advanced features and effects associated with different lighting systems

- optical and mechanical features and operations of the main types of lanterns and lantern accessories
- use of different combinations of lanterns and accessories, and lighting and lighting control systems for different types of production cues and effects
- lighting control concepts used in various lighting systems
- operational parameters of automated lighting and lighting effects accessories
- safety requirements and procedures that apply to operating lighting cues and 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:

- lighting equipment including range of dimmers, peripheral accessories, control devices, and control desks or consoles
- a production venue.

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

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