



Australian Government

CUALGT412 Implement lighting designs

Release: 1

CUALGT412 Implement lighting designs

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 implement lighting designs for screen, media and entertainment productions.

The unit applies to experienced technicians who apply knowledge of the correlation between lighting and the cameras, lenses and stock formats being used in a production. It involves planning and installing filler lighting and lights for presenters on location, or work collaboratively with a lighting designer who has devised the lighting plan.

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. Plan and confirm design requirements	1.1 Discuss lighting designs and plans with required production personnel to determine overall production needs 1.2 Select design options that provide a correct visual interpretation of the script and production 1.3 Confirm availability of lighting equipment and lighting accessories to implement different options for lighting effects 1.4 Use a range of criteria to decide which options are most feasible and obtain necessary equipment and accessories according to enterprise procedures 1.5 Provide suggestions to resolve technical and production issues relating to lighting and effects

ELEMENT	PERFORMANCE CRITERIA
	1.6 Seek feedback on ideas from required production
2. Set up and test lighting options	2.1 Test lighting equipment and accessories using light and exposure meters 2.2 Adjust lighting equipment and lighting accessories as required 2.3 Patch DMX to fixtures and other DMX transmitters 2.4 Address fixtures and set fixture modes according to production requirements 2.5 Interpret information readouts and make necessary adjustments to achieve desired light quality 2.6 Consult with required production personnel regarding final lighting configuration and inform personnel as required
3. Participate in technical rehearsals	3.1 Rehearse technical aspects of a production and adjust lighting set-up according to production requirements and within required timeframes 3.2 Modify cue sheets and update pre-programmed automated systems according to final shooting requirements 3.3 Amend lighting effects in consultation with required production personnel 3.4 Check required changes to lighting operations are implemented and required documentation is completed prior to actual production 3.5 Arrange supervision to maintain continuity of lighting throughout the production period
4. Monitor lighting operations during productions	4.1 Check operational aspects of lighting equipment and lighting set-up 4.2 Confirm and record placement of lighting equipment and accessories according to legislative and work health and safety (WHS) requirements 4.3 Maintain lighting conditions throughout production 4.4 Identify basic problems and faults using required test equipment and rectify according to organisational and WHS procedures

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
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SKILL	DESCRIPTION
Reading	• Interprets various forms of documentation, including emergency and safety procedures, equipment lists, and manuals
Writing	• Uses clear sequenced language, specific terminology, structure and format in written documentation and correspondence
Oral Communication	• Uses clear and language to express requirements and convey required changes using language suitable to diverse audiences • Uses listening and questioning techniques to seek information and confirm understanding
Numeracy	• Completes simple mathematical calculations using a scale ruler • Measures and recalculates lighting cues • Interprets channel numbers on lighting boards • Calculates power requirements, power settings and load requirements in response to lighting documentation and information from required personnel • Enters accurate data into cue sheets and automated systems
Self-management	• Takes personal responsibility for following enterprise requirements and regulatory safety practices and procedures in planning and completing work • Monitors lighting operations and manage required communication
Teamwork	• Selects and uses communication methods and practices to work collaboratively to reach creative and technical goals
Problem solving	• Monitors lighting operations and manage required communication • Analyses requirements to generate creative ideas • Manages decisions relating to lighting effects that meet script, technical and creative requirements

Unit Mapping Information

Supersedes and is equivalent to CUALGT402 Implement lighting designs.

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 CUALGT412 Implement lighting designs

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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:

- implement lighting designs for at least one performance.

In the course of the above, the candidate must:

- implement designs that address the creative and technical requirements of productions according to production documentation, performance requirements, organisational instructions and safety procedures
- explore options for implementing lighting designs, using a diverse range of techniques to create lighting effects
- operate and interpret information readouts from a colour temperature meter
- set up and test that lighting options meet creative and technical requirements pre-production
- adjust lighting equipment and accessories safely and effectively during rehearsals and productions
- identify problems and faults in lighting equipment and perform basic maintenance within scope of own role
- collaborate effectively with creative and technical team members
- produce and adjust documentation throughout process according to organisational procedures and using required lighting terminology.

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:

- roles and responsibilities of senior lighting technicians, lighting designers and other lighting personnel in the film and television production industry
- key features and purpose of basic elements of the lighting design process

- typical problems and main challenges of installing and testing lighting equipment, and ways to resolve them
- impact of technology on planning and operating lighting for productions
- key safety requirements and procedures that apply to implementing lighting designs and working with lighting equipment
- key creative and technical components of lighting plans and use of key photographic principles and techniques
- use of key features of lighting equipment and accessories, lighting systems and lighting concepts in a lighting plan
- general features of DMX cables, RDM and control systems
- attributes of cameras and lenses used in film and television productions and how they can be used in lighting designs
- characteristics of a range of film, tape and digital capture formats
- properties and behaviour of light and effects on film and television production
- effect of different light sources, diffusion materials, filters and reflectors on the lighting environment
- range of techniques for creating 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:

- locations requiring lighting
- production documentation
- lighting equipment, systems and accessories and cameras.

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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