



Australian Government

Department of Education, Employment and Workplace Relations

CUEAUD02C Prepare, rig, test and modify vision systems

Revision Number: 1

CUEAUD02C Prepare, rig, test and modify vision systems

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit describes the skills and knowledge required to interpret vision system plans, install equipment and conduct pre-production/event checks in accordance with the plans. The National Standard for Licensing Persons Performing High Risk Work applies to persons performing dogging and rigging work. Completion of the following units is required for certification at either basic, intermediate or advanced levels. CPCCLDG3001A Licence to perform dogging CPCCLRG3001A Licence to perform rigging basic level CPCCLRG3002A Licence to perform rigging intermediate level CPCCLRG4001A Licence to perform rigging advanced level. Sets and staging for some performances or events may fall within the definition of construction work. If so, people entering a construction site are required to complete the general induction training program specified by the National Code of Practice for Induction Training for Construction Work (Australian Safety Compensation Council, May 2007). Achievement of the unit 'CPCCOHS1001A Work safely in the construction industry' fulfils this requirement.
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Application of the Unit

Application of the unit	Vision system technicians who operate equipment in a range of live production or event environments require these skills. This unit also has strong linkages to the following units, and combined training and/or assessment with those units may be appropriate, e.g.: • CUEAUD03C Operate vision systems.
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units	

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Identify requirements and prepare vision systems	1.1. Liaise with relevant personnel and interpret the vision system plan to determine and confirm the vision system requirements 1.2. Identify rigging, cabling and power requirements and calculate accurately in accordance with the vision system plan 1.3. Select, assemble and test equipment and accessories and consumables to ensure that they are working and prepared for installation 1.4. Recognise faults and take appropriate remedial action 1.5. Pre-rig all relevant vision system equipment as required by the vision system plan and in accordance with licencing regulations 1.6. Prepare, roll, test and service extension leads, looms and cables in accordance with design specifications, enterprise and legislative requirements 1.7. Construct or devise effects and masking as required 1.8. Establish contingency plans in the event of equipment malfunction and prepare back-up equipment
2. Install vision systems	2.1. Determine the positioning of all vision systems and the necessary support requirements 2.2. Install supports or check that any rigging and mounts have been installed in the appropriate position 2.3. Use safe lifting and handling techniques to install all vision systems, primary and back-up, according to the requirements of the plan 2.4. Lay and secure power and other cables to avoid damage and hazardous situations
3. Test and modify vision systems	3.1. Patch and test all equipment and accessories to ensure operational efficiency and working order 3.2. Check all equipment in conjunction with other technical operations as required 3.3. Identify any problems and modify the installation or technical elements of the equipment in consultation with relevant personnel 3.4. Complete any documentation according to enterprise procedures and provide copies to relevant personnel as required

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- reading and interpreting documentation and plans
- calculating power loads, lengths and areas and other mathematical requirements
- key operational features of different types of vision systems

Required knowledge

- the capacities and limitations of various type of projectors and other elements used in vision systems
- general understanding of other technical elements of the production/event such as staging, lighting and sound elements to be used in conjunction with vision systems
- general knowledge of rigging procedures, including licencing requirements and restrictions
- relevant organisational and legislative occupational health and safety requirements, including those related to safe manual handling techniques and working at heights

Evidence Guide

EVIDENCE GUIDE

The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

Critical aspects for assessment and evidence required to demonstrate competency in this unit

The following evidence is critical to the judgement of competence in this unit:

- technical knowledge of the operating functions of a range of audiovisual equipment
- correct interpretation of vision system plans
- knowledge of occupational health and safety principles, procedures and regulations.

Context of and specific resources for assessment

The assessment context must provide for:

- the installation and testing of a variety of vision systems, including sound, lighting and projection equipment
- completion of installation and testing tasks within typical workplace time constraints
- installation and testing of equipment according to more than one plan to ensure that skills can be adapted to different contexts and vision system requirements
- use of industry-current equipment.

Method of assessment

Assessment may incorporate a range of methods to assess practical skills and the application of essential underpinning knowledge, and might include:

- direct observation of installation and testing tasks conducted by the candidate
- project or role play activities which allow the candidate to demonstrate skills in interpreting plans and choosing correct equipment
- written or oral questioning to test knowledge of typical vision systems
- written or oral questioning to test knowledge of occupational health and safety issues and regulations
- review of portfolios of evidence and third party workplace reports of on-the job performance by the candidate.

EVIDENCE GUIDE	
	Assessment methods should closely reflect workplace demands and the needs of particular groups (e.g. people with disabilities, and people who may have literacy or numeracy difficulties such as speakers of languages other than English, remote communities and those with interrupted schooling).
Guidance information for assessment	Assessment of this unit requires access to: • vision system plans • a range of standard industry-current vision systems • a venue where vision systems can be installed and tested.

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Relevant personnel may include:

- client
- designer
- director
- editors
- graphic artists
- head of department
- lighting and staging crew
- photographers
- production manager
- sound engineers
- stage manager
- supervisor
- technical director
- other specialist/technical staff

Vision systems may be used in a range of environments, including:

- attractions and theme parks
- clubs
- events
- festivals
- hotels
- live theatre, front or back of house
- meeting and conference facilities
- outdoor venues
- shopping centres
- showgrounds

Testing may include ensuring that:

- all equipment is patched correctly
- all operational functions are working correctly
- correct accessories are fitted
- vision system, lighting, sound, and staging elements can function sympathetically

Accessories may include:

- chains and other rigging
- curtaining
- flats

RANGE STATEMENT	
	• masking • mounting brackets • rostrum • screens • stands • trolleys • truss • other staging effects
Consumables may include:	• batteries • cables • CDs • computer discs • connectors • DVDs • filters • gels • globes • lenses • screens
Vision system equipment may include:	• amplifiers and PA systems • cable or infra-red controllers • communications systems (talkback) • computerised operating console • computers • connectors • lighting control or computers • lighting fixtures • microphones (cabled and wireless) • monitors • projection equipment, including: • 35mm slides • data grade projectors • film of any gauge • overhead projectors • surtitles • video projectors • recording and playback devices for audio and images • show relay • speakers

RANGE STATEMENT

	• televisions • two-way communication sets • video players • video, digital and still cameras
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Unit Sector(s)

Unit sector	
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Competency field

Competency field	Media and entertainment production - vision systems
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Co-requisite units

Co-requisite units	It is strongly recommended that this unit be assessed with or after the following unit:	
	CUEAUD06B	Apply a general knowledge of vision systems to work activities