



Australian Government

Department of Education, Employment and Workplace Relations

CUECIN05C Maintain projection equipment

Revision Number: 1

CUECIN05C Maintain projection equipment

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	<p>This unit describes the skills and knowledge required to perform regular basic maintenance and simple adjustments to cinema projection equipment. It does not cover repairs to equipment which would be referred to specialist service technicians.</p> <p>No licensing, legislative, regulatory or certification requirements apply to this unit at the time of endorsement.</p>
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Application of the Unit

Application of the unit	<p>A cinema projectionist applies the skills and knowledge outlined in this unit which deals specifically with day-to-day tasks associated with keeping projection equipment in working order. Typically they would be working in a commercial cinema complex, where shift work is common.</p> <p>This unit has strong linkages to the following units and combined assessment and/or training is recommended:</p> <ul style="list-style-type: none">• CUECIN02C Prepare film for screening• CUECIN03C Screen the film• CUSOHS301A Follow occupational health and safety procedures.
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units	This unit has strong linkages to the following units and combined assessment and/or training is recommended: <ul style="list-style-type: none">• CUECIN02C Prepare film for screening• CUECIN03C Screen the film• CUFSAF01B Follow health and safety and security procedures.	

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. Maintain projector	<ul style="list-style-type: none">1.1. Periodically check and undertake maintenance work to projector to ensure that it is constantly in working order1.2. Report the need for projector repairs to relevant personnel1.3. Lubricate projector according to manufacturer specifications1.4. Install replacement lamps correctly in the lamp housing, ensuring even and maximum luminance1.5. Align and adjust all moving and stationary parts of projector as required1.6. Keep the log book up-to-date and make accurate entries to report on projector condition
2. Maintain other projection equipment	<ul style="list-style-type: none">2.1. Correctly interpret service manuals and other equipment documentation2.2. Clean and maintain sound and other projection equipment, and make adjustments in accordance with organisational requirements and maintenance instructions2.3. Align film transport system with the projector2.4. Regularly check and align rewinding equipment to ensure that it is constantly in working order2.5. Check, replace and re-order spares and consumables in accordance with enterprise requirements and manufacturer instructions2.6. Report the need for repairs to relevant personnel2.7. Complete maintenance documentation according to enterprise procedures and provide copies to relevant personnel

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- reading and understanding service manuals, where they relate to maintenance requirements
- safety requirements in relation to projector lamps and three-phase power
- correct alignment parameters for projection equipment
- skills to accurately and concisely summarise and convey written and verbal information in relation to faults and repair needs

Required knowledge

- operational knowledge of a range of cinema projection equipment
- common maintenance needs and schedules of the range of projection equipment in use
- principles of planned preventative maintenance
- cleaning maintenance techniques, equipment and cleaning agents
- occupational health and safety issues related to routine maintenance of cinema projection equipment

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:

- operational knowledge of a range of cinema projection equipment and ability to perform a range of routine maintenance tasks to ensure proper operation
- ability to read and understand service manuals, where they relate to maintenance requirements
- knowledge of occupational health and safety principles and procedures.

Context of and specific resources for assessment

The assessment context must provide for:

- practical demonstration of skills within a fully equipped projection room or environment where maintenance tasks are undertaken on different types of projection equipment
- observation of a variety of maintenance activities, including work on projector, sound, and film transport equipment
- completion of maintenance tasks within typical workplace time constraints.

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 maintenance tasks conducted by the candidate
- project activities that allow completion and reporting on a range of maintenance activities
- review of maintenance schedules and repair reports prepared by the candidate
- written or oral questioning to test knowledge of typical projection equipment and occupational health and safety issues and regulations
- review of portfolios of evidence and third party workplace reports of on-the job performance by the

EVIDENCE GUIDE	
	<p>candidate.</p> <p>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).</p>
Guidance information for assessment	<p>Assessment of this unit requires access to:</p> <ul style="list-style-type: none">• standard industry-current film projectors and other projection equipment• standard industry-current cleaning and lubricant materials• the projection room of a venue where films are to be screened• typical industry equipment maintenance log book and other maintenance documents.

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.

<i>Projectors</i> may include:	<ul style="list-style-type: none"> • 16mm • 35mm • 70mm • IMAX
<i>Relevant personnel</i> may include:	<ul style="list-style-type: none"> • cinema equipment technician • cinema management
<i>Moving and stationary</i> projector parts include:	<ul style="list-style-type: none"> • all other sprockets • guides • intermittent sprocket • pads • rollers • sound drum and head
<i>Other projection equipment</i> may include:	<ul style="list-style-type: none"> • cinema sound system • film transport system • front-of-house sound system • slide projector • winders (manual or automatic)
<i>Cleaning</i> of projection equipment must include:	<ul style="list-style-type: none"> • all sprockets • aperture plate • film gate • guides and pads • rollers • sound drum
<i>Maintaining</i> projection equipment must involve:	<ul style="list-style-type: none"> • ensuring correct luminance and freedom from flicker • ensuring that the mirror, projection lens and port glass are cleaned and aligned • ensuring that the Xenon is changed as required
Maintaining <i>other projection equipment</i> may involve seeking advice and expertise with relation to:	<ul style="list-style-type: none"> • audio quality/sound system performance • checking screen luminance

RANGE STATEMENT	
Sound <i>adjustments</i> include:	<ul style="list-style-type: none"> • basic setting of sound processor • checking amps • checking speakers • performance using sound test loop
<i>Spares and consumables</i> may include:	<ul style="list-style-type: none"> • cleaning equipment and fluids • lamps • markers • splicing tape • spools

Unit Sector(s)

Unit sector	
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Competency field

Competency field	Media and entertainment production - cinema projection
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Co-requisite units

Co-requisite units		