Australian Government

Department of Education, Employment and Workplace Relations

CUFPOS405A Restore moving images

Revision Number: 1

INDUSTRY SKILLS COUNCILS
Creating Australia's Future

CUFPOS405A Restore moving images

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit describes the performance outcomes, skills and knowledge required to restore moving images that have originated from film and video material.
	No licensing, legislative, regulatory or certification requirements apply to this unit at the time of endorsement.

Application of the Unit

Application of the unit	The skills and knowledge described in this unit apply to operators involved predominantly in the restoration of moving image material transferred to digital, digital intermediate workflows and video-based material.
	Generally, these operators work in production houses specialising in film to digital transfers, film archive organisations, or motion picture film laboratories.
	In most circumstances, operators at this level work under the supervision of a senior operator.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.

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.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
Clarify work requirements	1. With reference to **documentation**, identify the type and format of **image data** received, the level of restoration required, and the required output format 2. In consultation with **relevant personnel**, identify deadlines for production of completed restoration and ensure work is planned to meet production requirements
Power on and calibrate equipment	3. Power on **equipment** according to manufacturer specifications and enterprise procedures 4. Log in to the system and activate restoration equipment 5. Calibrate equipment, e.g. monitor for colour consistency and render nodes for access times 6. Undertake regular equipment checks according to enterprise procedures
Operate restoration system	7. Transfer image data from received **external media** to restoration equipment 8. Import image data onto restoration equipment 9. Apply **restoration tools** to image data depending on the level of restoration required and the parameters of the tools 10. Assess the resultant image against the original for quality and artefacts, according to the level of restoration required 11. Export image data in the required format according to intended use
Complete work operations	12. Send sample image data to client for comment, respond appropriately to feedback and receive final go-ahead 13. Complete documentation and assign metadata as required 14. Archive image data onto appropriate media according to enterprise procedures 15. Transfer completed image data from restoration equipment to external media 16. Transfer or deliver final image data to client 17. Review restoration process and note areas for future improvement

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- communication and teamwork skills sufficient to:
    - interpret and clarify restoration requirements
    - liaise with relevant personnel, e.g. technicians, editors, archivists and external clients
    - work collaboratively in a production team environment
- self-management and planning skills sufficient to:
    - prioritise work tasks
    - work under pressure
    - meet deadlines
    - seek expert assistance when problems arise
- technical skills sufficient to:
    - use a range of moving image restoration tools and software applications
    - assess images for quality and artefacts
- computer skills sufficient to:
    - effectively use a mouse and keyboard
    - open and manipulate files using standard naming conventions
    - connect external media, e.g. USB, firewire and network drives
    - transfer image data to external media
    - calibrate a colour monitor
    - defragment a hard drive
    - open and close software applications
    - receive and send emails
    - implement image data storage options
- literacy and numeracy skills sufficient to:
    - read and interpret restoration documentation and restoration system help files
    - apply and record time codes and timings
    - read and interpret calibration look-up tables
    - complete workplace documentation
- problem solving skills sufficient to anticipate and deal with minor equipment set-up problems

Required knowledge

- industry knowledge:
    - roles and responsibilities of project team members, e.g. post-production

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REQUIRED SKILLS AND KNOWLEDGE

personnel, laboratory technicians, archivists, telecine and video operators

- well-developed understanding of current image data formats and their application in post-production

- computer terminology and how it applies to restoration equipment

- colour space and how it is utilised in image restoration

- application of current image restoration tools, their performance level, and the contexts in which they should be applied

- issues and challenges that arise in the context of restoring moving images

- OHS requirements as they relate to working for periods of time on close-up work on computers

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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	Evidence of the following is essential:
	
	• restoration of moving images that demonstrates an ability to:
	   • use moving image restoration equipment appropriately
	   • judge image quality for artefacts, stability, and frame rate
	   • connect and use a range of external media
	   • understand and use image data
	   • correctly interpret production schedules/instructions
	   • work to deadlines
	• a collaborative approach to work
	• attention to detail.

Context of and specific resources for assessment	Assessment must ensure: • access to appropriate moving image restoration hardware, software and tools • access to suitable image data to restore • access to variety of external media types • access to appropriate learning and assessment support when required • use of culturally appropriate processes and techniques appropriate to the language and literacy capacity of learners and the work being performed.
Method of assessment	A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit: • direct questioning combined with a review of portfolios of evidence and third-party workplace reports of on-the-job performance • direct observation of performance during a series of practical demonstrations using restoration equipment • written or verbal questioning to test knowledge as

EVIDENCE GUIDE	
	listed in the required skills and knowledge section of this unit.
Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended, for example: • CUFPOS301A Prepare motion picture film for printing or transfer • CUFPOS403A Colour grade moving images.

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.	
Documentation may include:	• email • online help • paper-based manuals/instructions • work orders • verbal discussions.
Image data formats may include:	• digital cinema • still image • video • web streaming.
Relevant personnel may include:	• archival staff • clients • editors • laboratory personnel • producer • production management personnel • supervisor • telecine operators • video operators.

Equipment may include:	• computer and video monitors
	• network connections
	• raid towers and mass storage devices
	• render farms
	• restoration software
	• room lighting
	• workstations, e.g.:
	  • MS Windows
	  • Mac
	  • Linux-based
	• other image software, e.g. Photoshop.

External media may include:	• CD/DVD • digital linear tape (DLT) • email

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RANGE STATEMENT	
	• network drives • USB/firewire flash memory • USB/firewire hard drive.
Restoration tools may include:	• de-flicker • de-interlace • de-shake • dust • frame interpolation • line scratch • noise • replace • sharpen • stabilisation • time stretch.

Unit Sector(s)

Unit sector	

Competency field

Competency field	Media and entertainment production - post-production

Co-requisite units

Co-requisite units		