



Australian Government

Department of Education, Employment and Workplace Relations

CUVVSP13B Research and experiment with techniques for digital image enhancement and manipulation

Release: 1

CUVVSP13B Research and experiment with techniques for digital image enhancement and manipulation

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit describes the skills and knowledge required to research and experiment with various techniques for the realisation of digital images. It outlines the way digital images are produced through the use of experimentation and ongoing refinement. It is a specialisation unit and refers to a specific art form. This work would usually be carried out independently, although guidance would be available if required.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of endorsement.

Application of the Unit

Not Applicable

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Prerequisite units

It is highly recommended that this unit be assessed in conjunction with:

- CUVCOR04B Originate concept for own work and conduct critical discourse
- CUVCOR09B Select and apply drawing techniques and media to represent and communicate the concept
- CUVCOR13B Research and critically analyse history and theory to inform artistic practice.

Depending on the context, combined assessment and/or training with a range of other units would also be appropriate, e.g.:

- CUVCRS14B Prepare, store and maintain finished work
- CUVCRS08B Document the work progress.

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

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|--|---|
| <p>1 Inform work through experimentation with digital imaging techniques.</p> | <p>1.1 Evaluate the potential for new approaches to digital imaging work based on capabilities of techniques already used.</p> <p>1.2 Select, adapt or introduce new materials, equipment or technology for the achievement of different effects.</p> <p>1.3 Extend the capabilities of digital imaging techniques through experimentation to inform practice.</p> <p>1.4 Research, adapt and use relevant ideas and approaches from other practitioners with consideration of intellectual property, moral rights and copyright requirements.</p> |
| <p>2 Develop and refine a conceptual vision for digital images.</p> | <p>2.1 Develop a conceptual vision for digital images based on a knowledge and understanding of different digital imaging techniques.</p> <p>2.2 Consider the criteria for selecting techniques, materials and equipment based on results of experimentation.</p> <p>2.3 Establish criteria which are most likely to facilitate the achievement of the conceptual vision.</p> <p>2.4 Select approach to work which meets established criteria.</p> <p>2.5 Refine the conceptual vision based on ongoing experimentation and analysis of digital imaging techniques.</p> |
| <p>3 Determine and organise resource requirements for new work.</p> | <p>3.1 Assess specific resource requirements which arise from the use of techniques and experimental approaches.</p> <p>3.2 Research and access potential resources or services for the production of digital images.</p> <p>3.3 Evaluate cost or other constraints which may impact on the development of work.</p> <p>3.4 Set up or coordinate resource requirements in accordance with safety or other workplace requirements.</p> |

ELEMENT

PERFORMANCE CRITERIA

4 Realise digital images.

- 4.1 Realise the digital images using techniques selected from research and experimentation to meet the conceptual vision.
- 4.2 Evaluate and respond to the potential for changes in the use of techniques, materials, or equipment.
- 4.3 Refine the conceptual vision based on ongoing experiences with the production of work.
- 4.4 Use safe working practices throughout the production digital images.
- 4.5 Consider issues of presentation and take action accordingly.

Required Skills and Knowledge

Required Skills and knowledge

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

Required skills:

- research skills and sources of information to inform experimentation in the production of digital work
- sources of equipment and software used for digital imaging work
- work space requirements for digital imaging work, including selection and set up of work space for particular types of work
- literacy skills sufficient to interpret information and material about the work of other digital artists and to read equipment instructions
- numeracy skills sufficient to deal with issues such as equipment capacity, optimum resolutions, storage capacity of various storage mediums.

Required knowledge:

- the role of experimentation in developing and refining concepts for digital images
- detailed knowledge of physical properties and capabilities of techniques and equipment used in digital imaging work and the maintenance of equipment
- the characteristics of different techniques and equipment and the potential of these characteristics to achieve different effects
- the formal elements and principles of design and how these may be used, adapted and challenged in the development of concepts for digital imaging work

Required Skills and knowledge

- the historical and theoretical contexts for digital imaging work and how this may be used to inform own artistic practice
- copyright, moral rights and intellectual property issues and legislation associated with digital imaging work
- organisational and legislative occupational health and safety procedures in relation to digital imaging work.

Required Skills and knowledge

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.

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:

- production of digital images which demonstrate a highly developed command of the selected techniques and which are consistent with the conceptual vision
- in depth knowledge of techniques, materials and equipment and the ways they may be adapted and extended.

Context of and specific resources for assessment

The assessment context must provide for:

- evaluation of visual language and technical execution of work pieces produced by the candidate
- practical demonstration of skills using required tools, equipment and materials to produce multiple digital images or a single major work.

Method of assessment

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

- direct observation of digital imaging work in progress, including exploration of and experimentation with techniques
- questioning and discussion about candidate's intentions and the work outcome
- verbal and written reports
- review of portfolios of evidence

EVIDENCE GUIDE

- third party workplace reports of performance by the candidate.

Assessment methods should closely reflect workplace demands (e.g. literacy) 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).

Assessment of this unit requires access to the materials and resources needed to produce digital 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.

Within this unit the candidate would generally demonstrate a command of a broad range of ***techniques*** as the basis for experimentation and innovation. Techniques may include:

- acquiring an image through scanning, digital photography or from the Internet
- manipulating the image by means of a range of imaging applications utilising features extensively
- matching resolution and format of output to reproduction requirements
- outputting images as prints, CD-ROM or other storage medium and to the Web.

Materials may include:

- a range of printing surfaces including papers, acetate, fabrics.

Equipment may include:

- computer
- digital camera
- discs and memory cards
- imaging applications
- output devices
- scanner.

Extending capabilities through:

- experimentation encourages the exploration of the full potential of the art form and involves innovation.

Research may involve:

- approaching individuals with relevant expertise
- attending lectures and talks
- conducting material and technical experiments and tests
- seeking out information in books, journals,

RANGE STATEMENT

- newspapers, the internet
- visiting exhibitions, museums.

RANGE STATEMENT

Intellectual property, copyright and moral rights requirements may relate to:

- extent to which the work may be used
- procedures for seeking permission to use the work of others, including systems for the administration of copyright
- protocols for the adaptation of work by others.

The ***conceptual vision*** may be determined by:

- elements and principles of design
- the relationship of the work to a theoretical and historical context
- the subject matter or theme for the digital images, e.g. the body; identity; land and place; political, cultural, social issues; spiritual concerns.

Refining the conceptual vision may include:

- adjustment to consideration of elements and principles of design
- adjustment to subject matter or theme
- adjustment to utilise the extended capabilities of the technique
- no change.

Resources or services may include:

- commercial outlets
- imaging bureaux
- Internet
- share ware
- software resources

Cost and other constraints may relate to:

- availability of materials and equipment
- budgeting
- sponsorship
- timeframe.

Workplace requirements may include:

- ergonomic considerations
- lighting
- power supply.

RANGE STATEMENT

Issues of presentation may include:

- availability of space and equipment
- cost
- practical considerations
- presentation context
- timeframe.

Taking action may involve:

- seeking external assistance, e.g. technical, collaborative
- selecting and preparing work for presentation.

Unit Sector(s)

Not Applicable