



Australian Government

Department of Education, Employment and Workplace Relations

ICPPP333C Electronically combine complex images

Revision Number: 1

ICPPP333C Electronically combine complex images

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit describes the performance outcomes, skills and knowledge required to undertake complex electronic combining of images.
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Application of the Unit

Application of the unit	In a pre-press environment many individuals are required to be competent on more than one graphics application. If this unit is to be used to assess competency with graphics applications, it should be used as a secondary unit to ICPPP325C Create graphics using a graphics application. It should be used when an additional graphics application is being assessed or taught. It is not to be used to assess an individual on the same software application as ICPPP325C Create graphics using a graphics application. In other words the individual should not receive the two units of competency for the one graphics application.
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units		

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. Assess and combine complex images	1.1. The components of complex images for reproduction are electronically evaluated for combining 1.2. Operations are planned for combining digital information from any electronic source to effect job specifications The correct masking technique is used to combine the job economically 1.3. Combined images are manipulated, retouched and corrected electronically to conform to job specifications
2. Edit complex image	2.1. Images are retouched to conform to job specifications 2.2. Images are contoured to conform to job specifications 2.3. Colour correction is undertaken to conform to job specifications 2.4. Tonal correction is undertaken to conform to job specifications
3. Solve technical combining problems	3.1. Technical problems relevant to combining images are resolved by reassessing the elements for combining or amendment of the design 3.2. Complex images are combined with the potential to be reproduced according to the job brief
4. Prepare information for output devices	4.1. The disk capacity is checked for space before final assembly 4.2. The limitations of the system to achieve the required output are assessed 4.3. Appropriate colour profiles are applied according to job specifications
5. Manage the combining system	5.1. The electronic combining system is managed effectively to facilitate the storage, retrieval and outputting of data 5.2. Combining software and files are maintained to ensure an operative system

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- OHS in relation to operating machinery such as safely switching off machinery before cleaning is started
- communication of ideas and information by interpreting implicit and explicit requirements of the job brief and discussing format and quality of inputs with the client
- collecting, analysing and organising information by accessing data on software capabilities and production requirements and matching them with the job brief
- planning and organising activities by planning the sequence of operations to facilitate smooth processing of the job
- teamwork when maintaining the production process in association with others
- mathematical ideas and techniques by calculating enlargement/reduction factors, fit, spatial relationships between elements and colour profiles
- problem-solving skills by adjusting fit and using colour correction so that output meets requirements of the job brief
- use of technology by using software correctly to ensure efficient processing and ease of subsequent processing

Required knowledge

- settings that need to be varied to suit subsequent printing processes or electronic output
- factors that are used in determining scan resolution
- limitations of a CCD scanner when compared to a Photo Multiplier scanner
- factors that are involved in calibrating the monitor
- converting from an RGB colour model to a CMYK colour model
- meaning of Native format
- characteristics of EPS and TIFF formats
- meaning of Raster Image Processing
- RIP calibration
- two advantages of OPI
- difference between a bitmapped and a vector image
- purpose of the calculation menu [or equivalent] in systems work
- specific limitations that are there with digital cameras
- manuals, safety and other documentation that are relevant to this task and where they are kept and information that is included in these documents

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 ability to: • complex images are combined with the potential to be reproduced according to job specifications and any image manipulation enhances the image quality • the underlying skill of combining should be transferable across the design and pre-press sectors. It is important that the substrate for reproduction is identified and that the competencies be demonstrated with a clear identification of printing processes • demonstrate an ability to find and use information relevant to the task from a variety of information sources • produce TWO jobs that combine and manipulate complex elements following the job brief and according to the listed Performance Criteria.
Context of and specific resources for assessment	Assessment must ensure: • produce TWO jobs that combine and manipulate complex elements following the job brief and according to the listed Performance Criteria • it is expected that special purpose industry software packages will be used where appropriate.
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 review of portfolios of evidence and third party workplace reports of on-the-job performance by the candidate.
Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.

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>Complexity</i> may include:	wrap around text, contoured graphics, vignettes, use of layers.
<i>Manipulation/edit</i> may include:	appropriate software relative to image input.
<i>Output</i> may include:	image setters, final films, direct imaging proofing, contract proofs.
<i>Input</i> may include:	both DTP and/or proprietary system.
<i>Capture</i> may include:	scanner, digital camera, hard storage.
<i>Quality standards</i> may include:	should meet client requirements and enterprise and industry standards.

Unit Sector(s)

Unit sector	
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Competency field

Competency field	Pre-press
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Co-requisite units

Co-requisite units		

