



Australian Government

Department of Education, Employment and Workplace Relations

ICPMM321B Capture a digital image

Release: 1

ICPMM321B Capture a digital image

Modification History

Not applicable.

Unit Descriptor

This unit describes the performance outcomes, skills and knowledge required to use digital camera technology for the production of colour separated images.

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Application of the Unit

This unit requires the individual to use digital camera technology for the production of colour separated images.

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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Nil

Nil

Employability Skills Information

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 required performance needed to demonstrate achievement of the Element. Where italicised text is used, further information is detailed in the Required Knowledge and Skills and/or Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

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Elements and Performance Criteria

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Element	Performance Criteria
1 Assess digital camera qualities	1.1 Camera software compatibility with hardware system is assessed and the appropriate software is selected for the job 1.2 Pixel resolution of the camera is matched to the required quality and resolution of outcome 1.3 The RAM capacity of the camera is checked to be appropriate to the number of images required to be captured 1.4 Shutter speed, focal lengths and camera feature modes (eg flash, scrollage, icon menu, close-up, wide angle and telephoto capacity) are assessed suitable for the quality and use of photographic images required 1.5 Lithium batteries are handled and stored according to OHS requirements
2 Set up for image capture	2.1 Camera is set up for image composition according to job specifications 2.2 Lighting is arranged according to job specifications 2.3 Light intensity is set for the correct exposure

- 3 **Preview image**
 - 3.1 Tone curves are adjusted according to job specifications
 - 3.2 The neutral balance of the image is arranged and adjusted
 - 3.3 Adjustments to image composition and exposure are made
- 4 **Photograph and upload a digital image**
 - 4.1 The digital camera is loaded and operated according to manufacturer's specifications appropriate to the quality of image to be photographed
 - 4.2 The computer card interface/disk is uploaded onto the relevant computer and the image saved on hard disk
 - 4.3 Photographic image files are created and stored on the computer according to software procedures
 - 4.4 Photographic images are enhanced, cropped and altered electronically to deliver the required image
 - 4.5 Photographic images are checked for fitness of purpose and conformance to the job brief
 - 4.6 Photographic images are assessed fit for the relevant delivery mode (eg print, CD-ROM) and delivered appropriately

Required Skills and Knowledge

Required Knowledge and Skills

The following knowledge must be assessed as part of this unit:

Using a digital camera

What is meant by pixel resolution and how does this affect the resolution of the image?

Why is the RAM capacity of a digital camera relevant?

Why are shutter speed and focal lengths important to check when capturing a digital image?

What are the safety requirements for handling and storing lithium batteries?

Uploading and processing digital images using a computer

How is the data uploaded to a computer from the computer card interface/disk?

What is the process for filing and creating photographic image files on the computer?

What is required to enhance, crop and alter photographic images electronically?

What considerations need to be made to assess a digital photograph suitable for a newspaper, glossy brochure and CD-ROM?

Information sources

What manuals, safety and other documentation are relevant to this task and where are they kept?

What information is included in these documents?

What other sources of information are available?

The following skills must be assessed as part of this unit:

OHS in relation to operating machinery such as safely switching off machinery before cleaning is started

Communication of ideas and information by consulting with supervisors over the processing of digital images

Collecting, analysing and organising information by assessing the suitability of shutter speed, focal lengths and camera feature modes (eg flash, scrollage, icon menu, close-up, wide angle and telephoto capacity) for the photographic image required

Planning and organising activities by planning and coordinating digital image capture sessions

Teamwork when maintaining the production process in association with others

Mathematical ideas and techniques by choosing the correct shutter speed and focal length to capture digital images

Problem-solving skills applied by identifying and correcting problems of image quality

Use of technology applied by using digital camera technology

Evidence Guide

The Evidence Guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Knowledge and Skills, the Range Statement and the Assessment Guidelines for this Training Package.

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

Evidence of the following is essential:

The photographed image meets the quality and look/ feel requirements of the brief. The digital camera functions are used to capture the required image

The underlying skills of capturing a digital image using a digital camera should be transferable across the associated sectors of the printing industry

Demonstrate an ability to find and use information relevant to the task from a variety of information sources

Assess the capacity of, and operate, a digital camera to upload and process THREE digital images using industry hardware and software to deliver a designated quality of image outcome

Evidence for assessment may be gathered from assessment of the unit of competency alone or through an integrated assessment activity

Context of and specific resources for assessment

Assessment must ensure:

assessment may take place on the job, off the job or a combination of these. Off the job assessment must be undertaken in a closely simulated workplace environment

digital cameras, lighting

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.

Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.

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. Italicised wording in the Performance Criteria is detailed below.

Degree of autonomy

A digital photographic image is processed in the workplace in consultation with the supervisor to ensure that correct skills and procedures are used

Types of systems

Digital cameras used in the pre-press sector and associated sectors with which a pre-press organisation may be required to work

Lighting

Direct (main) fill in lighting/fill reflector

Unit Sector(s)

Not applicable.

Competency field

Multimedia

Multimedia