

Australian Government

PUAFIR610A Manage imaging and electronic data

Release 2



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Modification History

Release	TP Version	Comments
2	PUA12 V2	Layout adjusted. No changes to content
1	PUA00 V8.1	Primary release on TGA

Unit Descriptor

This unit covers the competency required to electronically record evidence at a fire investigation scene. It includes the use, collection and selection of media, and the analysis and management of associated data.

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

Application of the Unit

Application of this unit is relevant to specialist fire investigators who are required to determine the origin and cause of fires.

It focuses on the skills and knowledge required to develop and apply a systematic approach to electronically recording physical evidence at a fire investigation using a range of media.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

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 required performance needed to demonstrate achievement of the element. Where *bold italicised* text is used, further information is detailed in the Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT		PERFORMANCE CRITERIA
1.	Evaluate scene to determine data to be captured electronically	1.1 Occupational health and safety (OHS) procedures appropriate to the incident are followed1.2 Scene is assessed to identify and confirm data to be captured electronically
		1.3 Process for data capture is determined in accordance with agency guidelines and legislative requirements
2.	Select and prepare equipment	2.1 Appropriate equipment and <i>accessories</i> are selected according to the specific requirements of the incident2.2 Personnel are briefed on capture process, and required quality and quantity of evidence
3.	Capture evidence electronically	 3.1 <i>Electronic equipment</i> is used to capture <i>physical evidence</i> in accordance with agency procedures 3.2 <i>Selected techniques</i> for capture of data are tested and
		modified where necessary
		3.3 Electronic record of physical evidence is documented and <i>labelled</i> in accordance with agency and legal requirements to ensure continuity, authenticity and integrity of evidence
		3.4 Evidence captured is protected from <i>data corruption</i>
		3.5 Data evidence log is completed and maintained
4.	Analyse data to	4.1 Data is assessed to support findings
	support conclusions	4.2 Data is collated and selected
		4.3 Selected evidence is prepared for use in reports and/or presentations
5.	0	5.1 Process for capturing evidence is maintained and audited
	evidence	5.2 Primary and working copies of data collected are <i>created</i> , <i>stored and used</i> where required
		5.3 Data is disseminated according to agency and legislative requirements
		5.4 Data identified for disposal is eliminated in line with agency, legal and environmental requirements
		5.5 Data to be retained is documented, <i>stored/archived</i> to ensure continuity and non-contamination/degradation of evidence in line with agency and legal requirements

Required Skills and Knowledge

This describes the essential skills and knowledge and their level, required for this unit.

Required Skills

- apply resource and time management skills
- interpret electronic data
- interview witnesses
- manage electronic data
- present electronic data evidence
- use and maintain digital cameras, video/audio/data recording devices
- use computer systems
- write and communicate in clear, unambiguous language

Required Knowledge

- equipment maintenance
- integrity of data in networked environments
- · local/state/territory court requirements for investigations and recording of findings
- methods, techniques and equipment for handling and storing evidence to preserve and avoid damage or contamination
- OHS practices and procedures
- principles of investigation based on scientific method
- protocols for recording data files
- · roles and functions for the recording, collecting, preserving and continuity of data
- rules of evidence
- safe work practices relating to the use and operation of digital and computer hardware

Evidence Guide

Critical aspects for assessment and evidence required to demonstrate competency in this unit Assessment must confirm the ability to:

- maximise the potential evidentiary value of physical evidence collected
- capture data relative to specific incident
- interpret data in regard to incident origin and cause.

Consistency in performance

Competency should be demonstrated over time and across a range of workplace and/or simulated situations.

Context of and specific resources for assessment

Context of assessment

Competency should be assessed in the workplace and in a simulated workplace environment.

Specific resources for assessment

Access is required to:

- range of current electronic media
- · computer-generated graphic software
- legislation, policy, procedures and protocols relating to gathering and managing data.

Guidance information for Assessment methods suitable for valid and reliable assessment of this unit may include a combination of:

- case studies
- demonstration
- observation
- questioning
- scenarios
- authenticated evidence from the workplace.

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 in the Performance Criteria is detailed below.

Accessories may include:	• Batteries		
·	• Caps		
	• Covers		
	• Discs		
	• Filters		
	• Lenses		
	Lighting		
	Recording devices		
	Tripods		
<i>Electronic equipment</i> may	Audio recording		
include:	• Closed circuit television (CCTV) or other media images		
nondo.	Computer generated data		
	Detection equipment		
	• Digital images		
	• Digital recording note takers		
	• Digital versatile discs (DVD)		
	• Digital video camera		
	• Electronic visual information		
	Global positioning system		
	• Long-term media (compact discs [CDs])		
	• Multimedia recording devices		
	• Portable hard drives/servers		
	• Short-term media (compact flash cards)		
	• Video recording		
	• Any and all objects, gross or microscopic in size		
<i>Physical evidence</i> may include:	 Biological tissue 		
	 Blood stain 		
	Clothing		
	Containers		
	Documents		
	 Fibres 		
	 Fire debris 		
	 Living, inanimate, solid objects 		
	 New evidence which results in the reopening of an 		
	investigation		
	• Paint		
	• Photography (digital, multimedia, CCTV, other media		

	images)
	Real, oral, computer data or documentary
	 Tyre marks, shoe marks, tool marks, fingerprints
	 Vehicle examinations
	Comment whete investige in bostom and the
Selected techniques may	
include:	
	Digital imaging processes Evenosure meter techniques
	Exposure meter techniques
	Perspective
<i>Labelling of evidence</i> may	• Date
include:	• Details of person/s giving the evidence
	Electronic file naming protocols
	Location
	Person/s collecting the evidence
	• Time
<i>Data corruption</i> may	Chemicals e.g. cleaning agents
include:	Computer virus
	• Dust and physical damage e.g. crushing and severe
	shocks
	• Extreme temperatures
	Magnetic fields
	Moisture
Data evidence log may	• Details of devices/equipment used to capture digital
include:	evidence
	Handling processes of each digital capture
	• Names and experience of personnel recording digital
	images and audio recordings
	 Protocol for saving digital capture e.g. NEF, TIFF, JPEG
	• Relationship between digital capture and incident scene
Creating, storing and	• Database recording/linking digital data to physical
using primary and working	evidence and specific incident
<i>copies of data</i> may include:	• Enhancing, reformatting, recycling data
	• Labelling and storing primary image data to a secured
	electronic storage device for archiving and copying data
	for ongoing data review and interpretation
	Statutory requirements for retention of evidence
Storing/archiving data to	Exhibit labels
<i>be retained</i> may include	Packaging medium
consideration of:	Physical nature of exhibit
	Storage temperature

Unit Sector(s)

Not applicable.