



Australian Government

DEFFOR010 Produce an electronic media image for forensic purposes

Release: 1

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Modification History

Release	Comments
1	This unit was released in DEF Defence Training Package release 1.0 and meets the Standards for Training Packages.

Application

This unit describes the skills required to employ a range of electronic media forensic methodologies to produce an image of a storage device. Storage devices may include hard disk drives, solid state drives, read-only memory (ROM), random-access memory (RAM), flash drives, tape drives, basic input/output system (BIOS) and USBs. Common objectives may include keyword searches, files recovery, including deleted files, extraction of registry information and metadata. Mobile devices such as mobile phones may afford additional information, including location, but require the use of specific methodologies.

This unit applies to those working in the gathering and analysis of electronic information.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Organisational policies and procedures must be consulted and adhered to, particularly those relating to WHS and the search and seizure of electronic evidence.

Those undertaking this unit would work independently, with minimum of supervision, while performing complex tasks, including making complex judgements. They would use discretion and judgement and take responsibility for the quality of their outputs.

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

Competency Field

Electronic Forensics

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions section.

<p>1. Determine job requirements</p>	<p>1.1 Detect electronic evidence using observation techniques and appropriate technological methods. 1.2 Isolate electronic evidence prior to examination. 1.3 Identify recording methods to document the electronic evidence. 1.4 Determine most appropriate methodology to image the electronic evidence based on the information being sought and the actual process of analysis of the investigation.</p>
<p>2. Image storage device</p>	<p>2.1 Prepare storage device for imaging. 2.2 Acquire image and check for accuracy by removing internal components from devices if appropriate. 2.3 Ensure image is sufficient in detail to allow all potential examinations and analyses to be carried out.</p>
<p>3. Collect and package electronic evidence</p>	<p>3.1 Collect electronic evidence so as to prevent contamination or loss. 3.2 Package and store evidence to maintain continuity and prevent degradation or contamination. 3.3 Enter details of electronic evidence collected in case notes and, where appropriate, in the exhibit register to maintain the chain of custody.</p>

Foundation Skills

The foundation skills demands of this unit have been mapped for alignment with the Australian Core Skills Framework (ACSF). The following tables outline the performance levels indicated for successful attainment of the unit.

ACSF levels indicative of performance:

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Learning N/A					Reading					Writing					Oral communication					Numeracy N/A				

Performance variables

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Support					Context					Text complexity					Task complexity				

Further information on ACSF and the foundation skills underpinning this unit can be found in the Foundation Skills Guide on the GSA website.

Unit Mapping Information

No equivalent unit.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6bdbab1e-11ed-4bc9-9cba-9e1a55d4e4a9>

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