



Australian Government

AVIO0021 Conduct screening using 3D CT X-ray scanning techniques

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the AVI Aviation Training Package.

Application

This unit involves the skills and knowledge required to screen articles by interpreting 3D computed tomography (CT) X-ray images at a transport security protection workplace in compliance with relevant regulatory requirements and national operating standards.

It includes setting up and testing 3D CT X-ray screening equipment; operating 3D CT X-ray screening equipment; interpreting 3D CT X-ray images; identifying weapons, explosives and prohibited items, and taking appropriate action when weapons, explosives and prohibited items are detected.

This unit addresses transport security technical skill requirements (physical, mental and task-management abilities) related to transport security duties of aviation, maritime and air cargo security personnel, and contributes to safe and effective performance in operational transport security environments.

Operations are conducted as part of transport security across a variety of operational aviation, maritime and air cargo contexts within the Australian industry.

Work is performed independently or under limited supervision as a single operator or within a team environment.

Licensing, legislative, regulatory or certification requirements are applicable to this unit.

Pre-requisite Unit

Not Applicable

Competency Field

O – Security

Unit Sector

Not applicable

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 Set up and test 3D CT X-ray screening equipment

- 1.1** 3D CT X-ray screening equipment is set up in accordance with workplace procedures and manufacturer's instructions
- 1.2** Required 3D CT X-ray screening equipment tests are carried out in accordance with workplace procedures and manufacturer's instructions
- 1.3** 3D CT X-ray screening equipment safety risks are identified and controlled during set up and testing in accordance with workplace procedures

2 Operate 3D CT X-ray screening equipment

- 2.1** Articles are prepared for screening in accordance with workplace procedures
- 2.2** 3D CT X-ray equipment is operated in accordance with workplace procedures and manufacturer's instructions
- 2.3** 3D CT X-ray screening equipment safety risks are identified and controlled during operation in accordance with workplace procedures

3 Interpret 3D CT X-ray images of screened articles

- 3.1** Image enhancement functions are used effectively in accordance with workplace procedures
- 3.2** Colours on 3D CT X-ray image are correctly interpreted in accordance with workplace procedures
- 3.3** Article components, shapes and sizes on 3D CT X-ray image are correctly interpreted in accordance with workplace procedures
- 3.4** Prohibited items, weapons and explosives on 3D CT X-ray images are correctly detected in accordance with workplace procedures

4 Take appropriate action when weapons, explosives and prohibited items are detected

- 4.1** Suspected explosives are reported to screening point supervisor and appropriate action is taken in accordance with legislative requirements and workplace procedures
- 4.2** Suspected weapons or prohibited items are reported to screening point supervisor and appropriate action is

taken in accordance with legislative requirements and workplace procedures

- 4.3** Relevant documentation is completed accurately in accordance with regulatory requirements and workplace procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the AVI Aviation Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This is a new unit.

Links

AVI Training Package Companion Volume Implementation Guide available on VET Net: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816>