



Australian Government

AVIO0029 Conduct screening using 3D CT X-ray scanning techniques

Release: 1

AVIO0029 Conduct screening using 3D CT X-ray scanning techniques

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 CT X-ray screening equipment; operating CT X-ray screening equipment; interpreting 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 across a variety of operational contexts within the Australian transport security 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 CT X-ray screening equipment

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

2 Manage loading of X-ray equipment

- 2.1** Loading items onto X-ray belt is controlled and appropriate actions is taken to maintain a steady flow through X-ray screening equipment
- 2.2** Issues interfering with flow of items through X-ray screening equipment are identified and appropriate action is taken to resolve issues concerned
- 2.3** Appropriate advice is provided about items to be identified by screening equipment in accordance with legislative requirements and workplace procedures
- 2.4** Physical position of items is controlled in accordance with workplace procedures
- 2.5** Persons with specific needs are identified and assisted in accordance with workplace procedures
- 2.6** Items with diplomatic status are processed in accordance with workplace procedures

3 Operate CT X-ray screening equipment

- 3.1** Articles are prepared for screening in accordance with workplace procedures
- 3.2** CT X-ray equipment is operated in accordance with regulatory requirements, workplace procedures and manufacturer's instructions
- 3.3** CT X-ray screening equipment safety risks are identified and controlled during operation in accordance with workplace procedures

4 Interpret CT X-ray images of screened articles

- 4.1** Image enhancement functions are used effectively in accordance with workplace procedures

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| | 4.2 | Colours on CT X-ray image are correctly interpreted in accordance with workplace procedures |
| | 4.3 | Article components, shapes and sizes on CT X-ray image are correctly interpreted in accordance with workplace procedures |
| | 4.4 | Prohibited items, weapons and explosives on CT X-ray images are correctly detected in accordance with workplace procedures |
| 5 | Take appropriate action when weapons, explosives and prohibited items are detected | |
| | 5.1 | Suspected explosives are reported to relevant authorities and appropriate action is taken in accordance with legislative requirements and workplace procedures |
| | 5.2 | Suspected weapons or prohibited items are reported to relevant authorities and appropriate action is taken in accordance with legislative requirements and workplace procedures |
| | 5.3 | Relevant documentation is completed 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 unit replaces and is not equivalent to AVIO0021 Conduct screening using 3D CT X-ray scanning techniques.

Links

Companion Volume Implementation Guides are found in VETNet' - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816>

