

Title	Maintain aircraft infrared imaging and/or detection systems		
Level	4	Credits	3

Purpose	People credited with this unit standard are able to: prepare to maintain aircraft infrared imaging and/or detection systems; locate defects; restore system airworthiness; and complete the maintenance task.
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Classification	Aeronautical Engineering > Avionic Maintenance
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Available grade	Achieved
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Explanatory notes

- 1 All tasks are to be carried out in accordance with enterprise procedures, the enterprise being the organisation carrying out the work. Enterprise procedures referred to in this unit standard are the applicable procedures found in the following: enterprise exposition; manufacturer publications; Government and local body legislation; airworthiness authority requirements.
- 2 Maintenance activities are those usually carried out on an aircraft in a hangar.
- 3 The scope of the system that this standard relates to is described in the applicable chapters of ATA iSpec 2200.

Outcomes and evidence requirements

Outcome 1

Prepare to maintain aircraft infrared imaging and/or detection systems.

Evidence requirements

- 1.1 Task is determined by reviewing maintenance documentation.
- 1.2 Resources are obtained and checked for serviceability or status in accordance with enterprise procedures.

Range publications, tools, equipment, safety equipment, materials.
- 1.3 Aircraft registration and system to be maintained are matched with documentation.

1.4 Aircraft and system are prepared for the application of power and for system operation in accordance with enterprise procedures.

Range cockpit controls match component positions, clearances, isolation tags, warning signs.

1.5 Ground and/or support equipment is positioned ready for system operation in accordance with enterprise procedures.

Outcome 2

Locate defects.

Evidence requirements

2.1 Serviceability is determined in accordance with enterprise procedures.

Range inspect, assess, test.

2.2 Defects are reported and documented in accordance with enterprise procedures.

Outcome 3

Restore system airworthiness.

Evidence requirements

3.1 Methods of rectifying defects are determined in accordance with enterprise procedures.

3.2 Replacement parts are procured and verified as authentic and serviceable in accordance with enterprise procedures.

Range identify, inspect.

3.3 Defects are rectified in accordance with enterprise procedures.

Range repair, replace, modify, adjust, calibrate.

3.4 System is tested to verify serviceability in accordance with enterprise procedures.

3.5 Inspections are obtained in accordance with enterprise procedures.

Range independent, duplicate, progressive.

Outcome 4

Complete the maintenance task.

Evidence requirements

- 4.1 Aircraft, system, and work area are left in a state that enables the next task to begin in accordance with enterprise procedures.
- 4.2 Resources are checked for serviceability and returned to service or storage in accordance with enterprise procedures.
- Range tools, equipment, safety equipment, publications.
- 4.3 Leftover parts and materials are disposed of in accordance with enterprise procedures.
- Range may include but is not limited to – serviceable, unserviceable, surplus, waste, scrap, hazardous.
- 4.4 Documentation is completed in accordance with enterprise procedures.
- Range may include but is not limited to – labels, work cards, release notes, log books, certification.

Replacement information	This unit standard, unit standard 22536, unit standard 22537, and unit standard 22538 replaced unit standard 3953.
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Planned review date	31 December 2018
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	19 May 2006	31 December 2016
Review	2	24 October 2014	N/A

Consent and Moderation Requirements (CMR) reference	0028
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact ServiceIQ qualifications@serviceiq.org.nz if you wish to suggest changes to the content of this unit standard.