Title	Maintain aircraft monitoring instrument systems
Level	4	Credits	5

Purpose	People credited with this unit standard are able to: prepare to maintain aircraft monitoring instrument systems; locate defects in aircraft monitoring instrument systems; restore airworthiness of aircraft monitoring instrument systems; and complete the maintenance task for aircraft monitoring instrument systems.

Classification	Aeronautical Engineering > Avionic Maintenance

Available grade	Achieved

Guidance Information

1   All tasks must be carried out in accordance with enterprise procedures.

2   Definition
     Enterprise procedures – procedures used by the organisation carrying out the work
     and applicable to the tasks being carried out. Examples are – standard operating
     procedures, safety procedures, equipment operating procedures, codes of practice,
     quality management practices and standards, procedures to comply with legislative
     and local body requirements.

3   Maintenance activities are those usually carried out on an aircraft in a hangar.

4   Systems may include temperature, quantity, pressure, rotation, position, vibration
     indication.

5   This unit standard does not cover pitot static systems, which are covered in Unit
     22532, *Maintain aircraft pitot static systems*.

6   The scope of the system that this standard relates to is described in the applicable
     chapters of ATA iSpec 2200.

Outcomes and performance criteria

Outcome 1

Prepare to maintain aircraft monitoring instrument systems.

Performance criteria

1.1   Task is determined by reviewing maintenance documentation.

1.2   Resources are obtained and checked for serviceability or status.

            Range   may include but is not limited to – 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.

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

1.5   Ground and/or support equipment is positioned ready for system operation.

Outcome 2

Locate defects in aircraft monitoring instrument systems.

Performance criteria

2.1   Serviceability is determined.

            Range   inspect, assess, test.

2.2   Defects are reported and documented.

Outcome 3

Restore airworthiness of aircraft monitoring instrument systems.

Performance criteria

3.1   Methods of rectifying defects are determined.

3.2   Replacement parts are procured and verified as authentic and serviceable.

            Range   identify, inspect.

3.3   Defects are rectified.

            Range   may include but is not limited to – repair, replace, modify, adjust, calibrate, lubricate.

3.4   System is tested to verify serviceability.

3.5   Inspections are obtained.

            Range   independent, duplicate, progressive.

Outcome 4

Complete the maintenance task for aircraft monitoring instrument systems.

Performance criteria

4.1   Aircraft, system, and work area are left in a state that enables the next task to begin.

4.2   Resources are checked for serviceability and returned to service or storage.

        Range   may include but is not limited to – publications, tools, equipment, safety equipment.

4.3   Leftover parts and materials are disposed of.

        Range   may include but is not limited to – serviceable, unserviceable, surplus, waste, scrap, hazardous.

4.4   Documentation is completed.

        Range   may include but is not limited to – labels, work cards, release notes, log books, certification.

Replacement information	This unit standard, unit standard 22530, unit standard 22531, unit standard 22532, unit standard 22533, and unit standard 22534 replaced unit standard 3951.

Planned review date	31 December 2024

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	31 December 2021
Review	3	26 March 2020	N/A

Consent and Moderation Requirements (CMR) reference	0028

This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.

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.