



Australian Government

AVIW0038 Manage aircraft sensor systems

Release: 1

AVIW0038 Manage aircraft sensor systems

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 manage aircraft sensor systems in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes initialising aircraft sensor systems and optimising aircraft sensor performance.

This unit addresses aviation technical skill requirements (physical, mental and task-management abilities) related to aircraft operational duties of flight crew and contributes to safe and effective performance in complex aviation operational environments.

Operations are conducted across a variety of operational contexts within the Australian aviation industry.

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

Pre-requisite Unit

Not applicable.

Competency Field

W – Equipment and Systems Operations

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.

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|----------|-----------------------------------|------------|--|
| 1 | Initialise aircraft sensor | 1.1 | Equipment is enabled in accordance with manufacturer |
|----------|-----------------------------------|------------|--|

systems		instructions and workplace procedures
	1.2	Equipment functional checks are performed in accordance with manufacturer instructions and workplace procedures
	1.3	Hazards are identified, risks are assessed and control measures implemented
	1.4	System parameters are initialised for anticipated environmental conditions
2 Optimise aircraft sensor performance	2.1	Sensor output is monitored and used to support operational task requirements
	2.2	System parameters are modified to maintain optimal sensor performance
3 Identify and rectify faults	3.1	Abnormal or emergency aircraft sensor system situations are handled in accordance with regulatory requirements and workplace procedures
	3.2	System faults are identified, diagnosed and appropriate responses are undertaken in accordance with 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to AVIW0030 Manage aircraft sensor systems.

Links

Companion Volume Implementation Guides are found in VETNet' -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816>

Assessment Requirements for AVIW0038 Manage aircraft sensor systems

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions on at least one occasion and include:

- applying precautions and required action to minimise, control or eliminate identified hazards
- applying relevant aeronautical knowledge
- applying relevant legislation and workplace procedures
- giving and receiving instructions related to managing aircraft sensors
- interpreting and following relevant aircraft and sensor documentation
- modifying sensor activities depending on operational objectives and environment conditions
- performing system functionality checks
- reporting and rectifying problems, faults or malfunctions promptly in accordance with workplace procedures.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- abnormal and emergency conditions and responses relating to malfunctioning sensor
- effects of environmental conditions on aircraft sensors
- electromagnetic theory
- relevant WHS/OHS responsibilities
- sensor capabilities and limitations
- sensor characteristics and operation
- sensor systems
- workplace policy and procedures for managing aircraft sensors.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- applicable documentation, including workplace procedures, regulations, codes of practice and operation manuals
- relevant materials, tools, equipment and personal protective equipment (PPE) currently used in industry.

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