



Australian Government

Assessment Requirements for AVIW0030 Manage aircraft sensor systems

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.

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
- communicating effectively with others
- completing relevant documentation
- determining and implementing appropriate counter measures
- giving and receiving instructions related to managing aircraft sensors
- identifying and using required communications technology
- implementing contingency plans
- implementing work health and safety (WHS) procedures and relevant regulations
- interpreting and compiling sensor data
- interpreting and following aircraft documentation
- interpreting and following operational instructions and prioritising work
- maintaining situational awareness
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring work activities in terms of planned schedule
- operating and adapting to differences in communications equipment in accordance with standard operating procedures (SOPs)
- planning own work, predicting consequences and identifying improvements
- reading, interpreting and following relevant regulations, instructions, procedures, information and signs
- recognising sensor jamming
- reporting and/or rectifying problems, faults or malfunctions promptly in accordance with workplace procedures
- working collaboratively with others
- working systematically with required attention to detail without injury to self or others, or damage to goods or equipment.

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:

- sensor systems, including:
 - airborne surveillance radar
 - acoustics
 - communications systems
 - electro optical systems
 - electronic support measures
 - forward looking infra-red (FLIR)
 - magnetic anomaly detection systems
 - visual observations
- environmental conditions, including:
 - atmospheric conditions
 - currents
 - local weather conditions
 - salinity
 - sea state
 - Southern Oscillation Index (SOI)
 - water depth and temperature
- abnormal/emergency conditions and responses
- communications emission control
- effects of environmental variations on data received from sensors
- magnetic anomaly detection theory
- organisational policy and procedures for managing aircraft sensors
- radar theory
- relevant WHS responsibilities
- sensor capabilities and limitations
- sensor characteristics and operation
- abnormal or emergency aircraft sensor system situations, including:
 - avionics malfunction
 - equipment damage
 - fire on-board
 - instrument failure
 - operator/crew incapacitation
 - sensor system malfunction and/or failure
- sonar theory
- typical problems that may occur when managing aircraft sensor, actions and appropriate solutions.

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 this is not appropriate, assessment must occur in simulated workplace operational situations that reflect 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
- acceptable means of simulation assessment
- 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.

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>