



Australian Government

AVIW0004 Perform operational inspections on remote operated systems

Release: 1

AVIW0004 Perform operational inspections on remote operated 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 perform operational inspections on remote operated systems in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes completing operational inspection administration, operational inspections, and performing and recording operational inspections.

This unit addresses technical skill requirements (physical, mental and task-management abilities) related to equipment and system operations of remote system operations personnel and contributes to safe and effective performance in complex operational environments.

Remote system operations are conducted as part of recreational, commercial and military activities across a variety of operational contexts within Australian industry.

Work is performed independently or under limited supervision within a single-pilot or multi-crew remote operated system environment.

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.

1 Prepare charts and operational plan

- 1.1** Suitable maps, charts and weather briefings for intended remote operation are selected and operations plan and geofencing set if required is prepared
- 1.2** Pre-operational information and Notice to Airmen (NOTAM), or industry equivalent, is accessed, analysed and applied to operational plan
- 1.3** Hazards are clearly indicated on charts and risk controls are implemented
- 1.4** Effects of wind velocity, adverse environmental conditions and contingency actions are planned for
- 1.5** Lost link profile and routing is prepared and validated
- 1.6** Awareness of current and forecast weather conditions is maintained

2 Complete operational inspection administration

- 2.1** Information about remote operated system is obtained, read and used to guide work as required
- 2.2** Pre- and post-operational planning and documentation is completed
- 2.3** Remote system operating weight and configuration is confirmed
- 2.4** Pre- and post-operation technical release and remote system operation administration documentation is completed
- 2.5** System serviceability is determined by approved technical inspection
- 2.6** Certification of inspection for technical release is completed

3 Perform operational actions/ inspection

- 3.1** Equipment and documentation are identified and accessible in accordance with regulatory requirements
- 3.2** Internal and external checks are completed in accordance with approved system checklist
- 3.3** Deployment administration tasks and communications

		are conducted
	3.4	Remote operated system is secured in accordance with manufacturer specifications and organisational procedures
4	Perform and record operational inspection	
	4.1	Pre-operating inspection of remote operated system and ancillary equipment is performed in accordance with original equipment manufacturer (OEM) documentation and operations manual
	4.2	Appropriate actions are undertaken to rectify discrepancies and are recorded
	4.3	Pre-operating inspection is recorded in accordance with operations manual

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.

Unit Mapping Information

This unit replaces and is not equivalent to AVIW3037 - Manage remote pilot aircraft systems pre- and post-flight actions

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>

Assessment Requirements for AVIW0004 Perform operational inspections on remote operated systems

Modification History

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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:

- accessing and applying relevant regulations, orders and information to the performance of the required planning and operational inspection administrative functions
- adapting to differences in equipment and operating environment in accordance with standard operating procedures (SOPs)
- applying industry safety practices and regulations
- applying precautions and required action to minimise, control or eliminate identified hazards
- applying relevant legislation and workplace procedures
- applying relevant remote operated system knowledge to industry application
- communicating effectively with others
- completing relevant documentation
- complying with operational task authorisations
- identifying and correctly using equipment required when performing inspections
- implementing technical contingency plans
- implementing work health and safety (WHS) procedures and relevant regulations
- interpreting and following operational instructions and prioritising work
- modifying activities depending on workplace contingencies, situations and environments
- monitoring and anticipate operational problems and hazards and taking appropriate action
- monitoring work activities in terms of planned schedule
- operating electronic communications equipment to required protocol
- performing input and downloading of data from flight planning systems
- planning pre-operational plan, including:
 - availability of consumables enroute and at destination
 - consumables required for flight
- reporting and/or rectifying problems, faults or malfunctions promptly in accordance with workplace procedures
- selecting and using required personal protective equipment (PPE) conforming to industry and WHS standards
- understanding and meeting the obligations placed on a remote system operator with regard to operational inspections

- 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:

- decision-making processes relevant to remote system operations
- system technical release requirements and procedures for intended operations
- checklist use and procedures
- effective communication
- error management, including error types, causes and consequences
- fatigue management
- flight-specific reports, including incident reporting
- human factors applicable to remote system operations
- human performance and its limitations, including the senses, memory and situational awareness
- inspection procedures, including rectification actions
- minimum equipment list for applicable remote operated system
- information, including one or more of the following:
 - aeronautical charts
 - aircraft flight manual (AFM)
 - approved checklists
 - conditions of service, legislation and industrial agreements, including workplace agreements and awards
 - En Route Supplement Australia (ERSA)
 - flight and technical log
 - induction and training materials
 - maintenance release
 - meteorological forecasts
 - Notice to Airmen (NOTAM)
 - operations manuals
 - workplace procedures and instructions, and job specification
- pre- and post-operation planning administration procedures, including operational task authorisations
- production methods for operational plans, including:
 - automated operational planning systems
 - manual planning methods
- relevant Australian Standards

- relevant legislation, regulations and orders applicable to industrial sector
- relevant WHS and environmental procedures and regulations
- risk identification, analysis and control
- stress, workload and time pressure management.

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 PPE currently used in industry.

Links

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