



Australian Government

**AVIH0022 Interpret airspace charts and
aeronautical publications for remotely
piloted aircraft systems**

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Modification History

Release	Comments
1	This unit of competency was first released in AVI Aviation Training Package Release 12.0.

Application

This unit involves the skills and knowledge required to interpret airspace classifications, charts and aeronautical publications in remotely piloted aircraft operations (RPAS), in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes obtaining maps and charts and accessing relevant documentation. It also includes interpreting airspace and developing RPAS flight plans.

This unit incorporates aviation non-technical skill requirements (mental, social and personal-management abilities) related to safety management duties of flight operations personnel and contributes to safe and effective performance in complex aviation operational environments.

Operations are conducted as part of recreational, commercial and military aircraft activities across a variety of operational contexts within the Australian aviation industry.

Work is performed independently or under limited supervision as a single operator or within a team environment.

Licensing/Regulatory Information

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

Pre-requisite unit(s)

No pre-requisite units

Competency field(s)

H - Route Planning and Navigation

Unit sector(s)

N/A

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	Identify maps and charts	1.1	Select maps and aeronautical charts for intended operation
		1.2	Locate operational area on relevant maps and charts
		1.3	Interpret aeronautical charts according to workplace procedures
		1.4	Identify hazards on charts and implement risk controls as required
		1.5	Use RPA safety applications to identify relevant operational area and associated hazards
2	Access and apply relevant documentation	2.1	Obtain a Notice to Airmen (NOTAM) for operational area according to regulatory requirements
		2.2	Decode information contained in the NOTAM and follow workplace procedures
		2.3	Complete a NOTAM for publication according to regulatory requirements and workplace procedures
		2.4	Identify the operational documentation required for a planned operation
		2.5	Obtain and comply with air traffic control clearances
		2.6	Source relevant aeronautical publications required for flight planning, weather information and local operating procedures
3	Interpret airspace	3.1	Classify airspace in the operational area using charts and publications
		3.2	Identify restricted, danger and prohibited areas and determine operational permissions
		3.3	Interpret controlled airspace boundaries and apply workplace procedures

4	Develop RPAS flight plans	4.1	Assess operational area information from charts, NOTAMs and aeronautical publications to determine constraints and hazards
		4.2	Determine intended route and required buffers relative to controlled or restricted airspace
		4.3	Plan mission stages including departure, transit, manoeuvres, contingencies and recovery
		4.4	Incorporate relevant weather forecasts into the flight plan
		4.5	Identify communication procedures and frequencies using aeronautical publications
		4.6	Document operational hazards and apply mitigations
		4.7	Prepare a complete RPAS flight plan including location details, timings, altitudes and controls
		4.8	Update or amend the flight plan based on changes to operational conditions

Range of conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Refer to the AVI Aviation Companion Volume Implementation Guide for non-essential items for this unit of competency.

Assessment Requirements for AVIH0022 Interpret airspace charts and aeronautical publications for remotely piloted aircraft systems

Performance Evidence

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

- adhering to restricted, controlled and other appropriately designated airspace requirements
- completing a NOTAM for publication
- identifying geographical features from charts
- identifying the correct radio frequency for a location using aeronautical charts
- identifying the location and relevant parts of the RPA operator's documented practices and procedures
- identifying on a visual navigation chart without reference to the chart legend the following:
 - controlled airspace, controlled traffic region and prohibited/restricted/danger areas and aerodrome information
 - identifying airspace and boundaries and symbols
 - interpreting other symbols with reference to the chart legend
 - major features including roads, rivers and lakes
 - obstacles, spot heights, including elevation or height above terrain
 - secondary controlled aerodromes
- interpreting a map or chart in relation to the operation of the RPA and determining implications
- interpreting features on aeronautical charts
- interpreting navigation charts and classifying airspace
- obtaining and decoding a Notice to Airmen
- reading and interpreting a local weather forecast and determining if it is suitable to operate the RPA for the operation given the forecast
- reading and interpreting an aeronautical weather forecast and determining if it is suitable to operate the RPA for the operation given the forecast
- using and interpreting electronic applications, maps and charts.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- airspace classifications
- airspace depiction on aeronautical charts
- electronic flight bag
- "fly neighbourly" areas and environmental protection
- form of the earth, aeronautical charts and maps including:
 - cardinal and ordinal points on the compass
 - depiction of height and elevation on charts
 - distance on the earth and in charts
 - features on an aeronautical chart (other than airspace)
 - latitude and longitude
 - magnetic variation
 - relationship between magnetic heading and magnetic bearing
- permissions for remotely piloted aircraft operations in restricted areas
- procedures for completion and submission of NOTAMs
- relevant aeronautical publications
- requirements of aeronautical radio qualifications.

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 PPE currently used in industry.

Mandatory Workplace Requirements

Assessment of performance evidence may be in a workplace setting or an environment that accurately represents a real workplace.

Unit Mapping Information

Previous Code and Title	Equivalence	Comments
AVIH0006 Navigate remote pilot aircraft systems	Not equivalent	

Links

Companion volumes, including implementation guides, are found on the national training register - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816>.