



Australian Government

AVIU0001 Apply basic meteorology for remotely piloted aircraft operations

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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 apply basic meteorology for remotely piloted aircraft (RPA) operations, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes obtaining and interpreting weather forecasts, assessing weather for operation suitability and monitoring weather conditions.

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)

Not applicable.

Competency field(s)

U - Environment

Unit sector(s)

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	Obtain and interpret weather forecasts	1.1	Obtain relevant aeronautical and public weather forecasts and reports for the area of operation
		1.2	Decode an aeronautical forecast
		1.3	Clarify, interpret and communicate or report information obtained as required, with due observation of the operational environment
		1.4	Interpret the meaning of symbols on weather charts according to relevant publications
2	Assess weather for operation suitability	2.1	Compare weather forecasts against aircraft, pilot and organisational limits, as applicable
		2.2	Assess forecast conditions in the field for effective operation
3	Monitor weather conditions	3.1	Monitor and act on weather conditions as required
		3.2	Anticipate changes in actual weather conditions and take appropriate action

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 AVIU0001 Apply basic meteorology for remotely piloted aircraft operations

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:

- decoding an aeronautical forecast
- determining whether a flight should proceed based on available meteorological forecasts
- identifying weather conditions that may impact RPAS operations
- interpreting meteorological forecasts
- interpreting the meaning of symbols on weather maps
- interpreting weather forecasts and local observations
- obtaining aeronautical forecasts for the area of operation
- responding to the dangerous weather conditions
- sourcing and interpreting aviation weather forecast products and services as appropriate
- using public weather forecasts and reports.

Knowledge Evidence

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

- aeronautical forecasts and public weather forecasts and reports
- causes and effects of weather phenomena in relation to remotely piloted aircraft operations
- weather map symbols and their meaning
- weather observations.

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
	Newly created	This unit has been created to address a skill or task required by industry that is not covered by an existing unit of competency

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>.