



Australian Government

PUAFIR018 Navigate from an aircraft

Release: 1

PUAFIR018 Navigate from an aircraft

Modification History

Release 1.0 This is the first release of this unit of competency in the PUA Public Safety Training Package.

Application

This unit of competency involves the skills and knowledge required to navigate from an aircraft using visual techniques. It includes preparing for flight, determining and planning a safe flight route, navigating to a destination and completing post navigational activities.

The unit applies to personnel such as air observers, air attack supervisors and incendiary operations supervisors who are required to obtain accurate intelligence information of fire activity and control progress from an aircraft to support planning and operations.

The fire sector is those sections of government departments, statutory authorities or organisations that have responsibility under jurisdictional arrangements for the delivery of firefighting and fire management services.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

It is essential that the prerequisite units listed below are obtained prior to the issuance of this unit to individuals within the fire sector or the units contributing to the attainment of a fire qualification.

PUAFIR017 Work safely around aircraft

Competency Field

Fire

Unit Sector

Fire

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

1 Prepare for flight

- 1.1** Incident and/or task information is obtained
- 1.2** Relevant maps and navigation equipment are gathered and checked
- 1.3** Information and navigation techniques are applied to plot position on map or navigation chart and to determine current location and destination, within accepted tolerances
- 1.4** Aircraft performance capabilities are considered

2 Determine and plan a safe flight route

- 2.1** Preliminary flight route is determined using available information
- 2.2** Assessment of hazards, topographical features and other considerations along proposed flight route and at destination is undertaken
- 2.3** Preliminary flight route is modified, in accordance with outcomes of hazard assessment
- 2.4** Records are prepared, in accordance with organisational requirements
- 2.5** Pilot is briefed on task requirements, planned flight route and relevant information, in accordance with organisational requirements

3 Navigate to destination

- 3.1** Pilot is directed to follow planned route, as required
- 3.2** Route plan and navigation aids are used to maintain compliance with planned route
- 3.3** Location is determined by identification with ground features
- 3.4** Current location is regularly verified within accepted tolerances
- 3.5** Amendments to flight route are undertaken, in accordance with changes in environmental factors, fire behaviour and operational requirements
- 3.6** Lost en route procedures are implemented, as required
- 3.7** Unanticipated difficulties are reported, in accordance with organisational procedures

- | | | |
|--|------------|---|
| | 3.8 | En route and arrival reporting information is transmitted, in accordance with organisational procedures |
| 4 Complete post navigational activities | 4.1 | Report is completed, in accordance with organisational procedures |
| | 4.2 | Navigational equipment is maintained, in accordance with organisational 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.

environmental factors must include one or more of the following

- fire behaviour
- need to match transportation mode to terrain
- time of day

Unit Mapping Information

This unit replaces and is equivalent to PUAFIR315 Navigate from an aircraft.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=3eca5672-6d5a-410b-8942-810d0ba05bbf>

Assessment Requirements for PUAFIR018 Navigate from an aircraft

Modification History

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Performance Evidence

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

- applying Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) organisational requirements
- briefing a pilot and conducting pilot briefings
- communicating through verbal and written instructions, intercom, radio system and hand signals
- completing post navigational activities including reporting requirements
- conducting grid and/or magnetic north and latitude and longitude conversions
- determining location and planning safe flight route by plotting a navigational route
- identifying hazards
- maintaining accuracy within accepted tolerances when following a route and retaining positional awareness
- navigating for extended periods in an aircraft
- preparing for aircraft flight including collecting incident information
- plotting positions on a map
- reacting to changes in the operating environment necessitating replanning of a course
- using maps and charts
- using navigational aids and equipment

Knowledge Evidence

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

- accepted tolerances
- aircraft performance capability
- alternate routes strategies due to weather, aircraft tactical issues or lost procedures
- cartographic symbols and legends
- characteristics and limitations of Global Positioning System (GPS) and aircraft navigational

equipment

- communication methods and processes
- determination of locations
- environmental factors
- factors that may impact on navigation including prevailing weather and environmental conditions and margin of error allowable per task or incident terrain
- grid and magnetic conversions
- information on a map
- map and chart types
- methods for determining current location
- navigational equipment
- organisational documentation, policies and procedures
- other flight planning considerations
- pilot briefing
- potential hazards and flight hazards
- report requirements
- route planning techniques
- topographical features
- types of incident or task information
- Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) organisational requirements including risk mitigation

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 operational situations or in simulated operational training 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
- appropriate materials, equipment, tools and personal protective clothing and equipment currently used in industry including
 - navigation equipment, weather forecast information and maps and charts for aerial navigation
- applicable documentation including organisational procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

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