



Australian Government

PUAFIR409 Develop air attack strategies

Release: 1

PUAFIR409 Develop air attack strategies

Modification History

Release 1. 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 plan air attack strategies to suppress fires with firebombing aircraft.

The unit applies to personnel such as Air Attack Supervisors and Air Operations Managers who are required to develop air attack strategies to suppress fires, to access resources to support implementation and to achieve incident objectives within the air operations section of an incident action plan.

Collaboration within a team environment to assess an incident and develop air attack strategies to achieve incident objectives is required.

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.

PUAFIR408 Plan aircraft operations

PUAOPE013 Operate communications systems and equipment

Competency Field

Fire

Unit Sector

Fire

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Assess fire situation

2 Obtain aviation resources to implement strategies

3 Review air attack strategies

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1 Incident briefing is obtained from operations personnel and clarification is sought, as required
- 1.2 Hazards impacting fire situation are identified and assessed for effect on firebombing strategies and tactics to be used
- 1.3 Fire incident is monitored and changes are identified and reported to relevant personnel
- 2.1 Information related to firebombing strategies is obtained, in accordance with incident action plan
- 2.2 Aviation resources required to implement firebombing strategies are identified, prioritised and deployed, in accordance with identified objectives and strategies
- 2.3 Factors impacting on operating procedures are assessed and considered in planning for operational support
- 2.4 Operational support requirements are determined and activated
- 3.1 Contact using approved communication methods is established and maintained with fire ground and support personnel
- 3.2 Changes in operational conditions are communicated between operations personnel
- 3.3 Changes in operational strategies are conveyed to operational personnel
- 3.4 Priorities for managing hazards are identified through consultation with organisational personnel
- 3.5 Ongoing review of air attack strategies is undertaken through consultation with appropriate personnel
- 3.6 Factors affecting performance and effectiveness of aviation resources and operational support are monitored and strategies are modified, if required

- 3.7** Documentation related to air attack strategies is completed and reported, 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.

- fire situation must include one of the following
- structural fire
 - wildfire
- type of fuel must include at least two of the following
- forest
 - grass
 - plantations
 - scrub

Unit Mapping Information

This unit replaces and is equivalent to PUAFIR409B Develop air attack strategies.

Links

PUA Training Package Companion Volume Implementation Guide is found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=3eca5672-6d5a-410b-8942-810d0ba05bbf>

Assessment Requirements for PUAFIR409 Develop air attack strategies

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
- assessing fire situation
- assessing wildfire behaviour for air attack strategies and tactics
- deploying resources to undertake suppression
- documenting information related to incident
- identifying hazards that may affect aircraft operations
- implementing organisational and emergency procedures including codes of practice, hazard policy and procedures, planning and deployment of firebombing aircraft and resources and guidelines relating to safe use of equipment, resources and facilities
- meeting operations support requirements
- obtaining aviation resources to implement strategies
- reacting strategically to changes in operational conditions
- reporting accidents and incidents
- reviewing air attack strategies and tactics
- selecting and implementing firebombing strategies and tactics considering resources, operational conditions, safety of personnel and property

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

- air attack strategies including offensive, defensive and firebombing
- aviation resources including
 - aerial attack platforms such as light or large helicopter, light or medium fixed wing aircraft and aerial suppressants including foam, retardant and water
 - firebombing aircraft such as fixed and rotary wing firebombers, single engine air tankers (seats) and multi engine aircraft

- firebombing systems such as buckets, belly tank and scoopers
- operational personnel such as air attack supervisor, operations officer, sector commander, aircraft officer and incident controller
- characteristics, application and effectiveness of various types of fire suppressants
- communications equipment and methods
- effect of topographical environments and weather conditions on fire containment activities
- factors affecting performance of aviation resources
- fire behaviour
- fuel types
- hazards that may adversely affect aircraft operations
- operational support requirements
- organisational documentation, policies and procedures
- procedures for reporting
- strategies and tactics for fire and support activities
- tactics including direct, indirect, head, flank, parallel, line building and asset and crew protection
- type of fuel including forest, grass, plantations and scrub
- types and capabilities of firebombing aircraft
- types and capabilities of firebombing systems
- Work, Health and Safety (WHS)/ Occupational Health and Safety (OHS) organisational requirements including risk mitigation

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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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.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in industry approved simulated workplace operational situations that reflect workplace conditions.

Competency should be demonstrated over time and in a range of contexts.

Resources for assessment must include access to

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, equipment, tools and personal protective clothing and equipment currently used in industry including
 - access to or simulation of wildfire suppression situations
- applicable documentation including organisational procedures, industry standards, equipment

specifications, regulations, codes of practice and operation manuals.

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