



Australian Government

A VIW4034 Supervise aircraft refuelling

Release: 1

AVIW4034 Supervise aircraft refuelling

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 supervise aircraft refuelling, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes preparing for refuelling operations, supervising refuelling operations, and managing post-refuelling operations.

This unit addresses aviation technical skill requirements (physical, mental and task-management abilities) related to equipment and system operations of flight or ground 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 within a single-pilot or multi-crew environment.

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

Use for Defence Aviation is to be in accordance with relevant Defence Orders, Instructions, Publications and Regulations.

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 for refuelling operations

- 1.1 Fuel quality control checks are conducted in accordance with workplace procedures
- 1.2 Individual or team personal protective equipment (PPE) is checked for serviceability and functionality
- 1.3 Refuelling brief is conducted
- 1.4 Refuelling equipment is grounded and bonded prior to task
- 1.5 Equipment is inspected in accordance with workplace procedures
- 1.6 Refuelling equipment pre-operational checks are conducted
- 1.7 Hazards are identified, risks are assessed and hazard management is implemented

2 Supervise refuelling operations

- 2.1 Clearance to refuel aircraft is obtained
- 2.2 Refuelling staff are directed to commence operations
- 2.3 Safety precautions are implemented and monitored throughout refuelling operations
- 2.4 Refuelling contingencies are communicated to refuelling team and aircraft crew
- 2.5 Incident or emergency actions are managed in accordance with workplace procedures

3 Manage post-refuelling operations

- 3.1 Refurbishment and stowing of equipment is observed
- 3.2 Recording and reporting of equipment unserviceabilities are completed
- 3.3 Post-refuelling operational documentation is completed and processed in accordance with workplace 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.

Refuelling operations must include one or more of the following:

- fixed wing aircraft
- open port refuelling
- pressure refuelling
- rotary wing aircraft

Personal protective equipment must include:

- approved clothing
- gloves
- hearing protection
- high visibility clothing
- mask or respirator
- safety glasses
- safety headwear and footwear

Inspection of equipment must include one or more of the following:

- radio check
- serviceability of ground support equipment
- serviceability of PPE
- visual inspection of auxiliary equipment
- visual inspection of documentation
- visual inspection of fuel availability
- visual inspection of refuelling equipment
- visual inspection of safety equipment

Clearance to refuel must be obtained from one or more of the following:

- flight crew
- ground support staff
- maintenance personnel
- supervisors or managers

Refuelling contingencies must include one or more of the following:

- contamination of or from, materials being handled
- dust (static discharge, loss of visibility)
- fuel vapours
- hazardous or dangerous materials
- heat
- hot engines, static electricity, sparks and other forms of ignition
- hot refuelling
- jet blast or rotor wash
- multiple refuelling tasks
- noise
- other aircraft or vehicles on tarmac
- other fuel additives
- rotating propellers

Incident or emergency

- aircraft accident/incident

must include responding to one or more of the following:

- aircraft or fuel fire
- aircraft threat
- damage to refuelling equipment
- injury of personnel
- spills, leakages, ruptures

Unit Mapping Information

This unit replaces and is equivalent to AVIW4034A Supervise aircraft refuelling.

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816>