



Australian Government

AVIW2029 Operate aircraft refuelling nozzle

Release: 1

AVIW2029 Operate aircraft refuelling nozzle

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

It includes preparing for refuelling operations, carrying out refuelling operations, and completing 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 as a single operator or within a team environment.

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

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

1 Prepare for refuelling operations

- 1.1 Appropriate personal protective equipment (PPE) is selected and fitted correctly
- 1.2 Pre-operational checks of equipment are conducted in accordance with workplace procedures
- 1.3 Hazards, problems and/or defects identified during pre-operational checks are reported/rectified in accordance with workplace procedures
- 1.4 Outcomes of pre-operational checks are recorded in accordance with workplace procedures
- 1.5 Refuelling site is selected

2 Carry out refuelling operations

- 2.1 Clearance to commence refuelling is obtained
- 2.2 Nozzle is grounded and bonding lead is connected to aircraft in accordance with workplace procedures
- 2.3 Instructions regarding fuel quantity are obtained
- 2.4 Refuelling auxiliary equipment is configured for safe fuel delivery
- 2.5 Aircraft is refuelled in accordance with workplace procedures

3 Complete post-refuelling operations

- 3.1 Refuelling completion operations are conducted in accordance with workplace procedures
- 3.2 Fuel sample is taken and visual check is made prior to aircraft departure in accordance with workplace procedures
- 3.3 Refuelling equipment is disconnected and stowed in accordance with workplace procedures
- 3.4 Post refuelling 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:

- open port refuelling
- pressure refuelling

Pre-operational checks must include one or more of the following:

- auxiliary equipment check
- documentation
- fire extinguisher
- PPE
- radio check
- serviceability of ladder or portable steps
- sufficient fuel
- visual inspection for leaks, defects and obstructions

Hazards, problems and/or defects must include one or more of the following:

- contamination of or from materials being handled
- dust
- fuel vapours
- hazardous or dangerous materials
- heat
- hot engines, static electricity, sparks and other forms of ignition
- jet blast or rotor wash
- noise
- other fuelling additives
- other aircraft or vehicles on tarmac
- rotating propellers
- spills, leakages, ruptures

Personal protective equipment must include:

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

Unit Mapping Information

This unit replaces and is equivalent to AVIW2029A Operate aircraft refuelling nozzle.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816>