



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

Assessment Requirements for AVIW2029 Operate aircraft refuelling nozzle

Modification History

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Performance Evidence

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

- adapting to differences in equipment and operating environment in accordance with standard operating procedures
- applying precautions and required action to minimise, control or eliminate identified hazards
- communicating effectively with others
- completing relevant documentation
- conducting pre-operational checks and reporting/rectifying identified hazards, problems and/or defects
- identifying and correctly using relevant equipment
- implementing contingency plans
- implementing work health and safety (WHS)/occupational health and safety (OHS) procedures and relevant regulations
- interpreting and following operational instructions and prioritising work
- modify activities depending on workplace contingencies, situations and environments
- monitoring and anticipating operational problems and hazards and taking appropriate action
- monitoring work activities in terms of planned schedule
- operating electronic communications equipment to required protocol
- preparing for refuelling operations
- reading, interpreting and following relevant regulations, instructions, procedures, information and signs
- reporting and/or rectifying identified problems promptly, in accordance with regulatory requirements and workplace procedures
- selecting and using required personal protective equipment conforming to industry and WHS/OHS standards
- taking fuel sample and conducting visual check prior to aircraft departure
- working collaboratively with others
- working systematically with required attention to detail without injury to self or others, or damage to goods or equipment.

Knowledge Evidence

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

- emergency procedures
- manufacturer instructions for equipment used in quality control processes
- problems that may occur when operating an aircraft refuelling nozzle and appropriate action that should be taken in each case
- quality control principles and processes for operating an aircraft refuelling nozzle
- relevant information/documents:
 - airport airside driver handbook
 - conditions of service, legislation and industrial agreements including workplace agreements and awards
 - flight schedules
 - induction and training manuals
 - relevant International Air Transport Association (IATA) fuel guidelines
 - loading and fuelling operational checklists
 - manufacturer specifications and instructions for fueller/dispenser vehicle and auxiliary equipment
 - workplace instructions and job specification
- relevant sections of Civil Aviation Safety Regulations (CASRs) and Civil Aviation Orders and other regulations for quality control processes carried out when operating an aircraft refuelling nozzle
- relevant WHS/OHS and environmental procedures and regulations
- risks that exist when operating an aircraft refuelling nozzle and related risk control procedures and precautions
- selection and correct fitment of PPE required for aircraft refuelling
- workplace procedures for conducting various quality control operations related to operating an aircraft refuelling nozzle.

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 simulated workplace operational situations that reflect workplace conditions.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- acceptable means of simulation assessment
- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals
- relevant materials, tools, equipment and personal protective equipment currently used in industry.

Links

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