



Australian Government

AVIW4034 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.

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|--|---|
| 1 Prepare for refuelling operations | <ul style="list-style-type: none">1.1 Fuel quality control checks are conducted in accordance with workplace procedures1.2 Individual or team personal protective equipment (PPE) is checked for serviceability and functionality1.3 Refuelling brief is conducted1.4 Refuelling equipment is grounded and bonded prior to task1.5 Equipment is inspected in accordance with workplace procedures1.6 Refuelling equipment pre-operational checks are conducted1.7 Hazards are identified, risks are assessed and hazard management is implemented |
| 2 Supervise refuelling operations | <ul style="list-style-type: none">2.1 Clearance to refuel aircraft is obtained2.2 Refuelling staff are directed to commence operations2.3 Safety precautions are implemented and monitored throughout refuelling operations2.4 Refuelling contingencies are communicated to refuelling team and aircraft crew2.5 Incident or emergency actions are managed in accordance with workplace procedures |
| 3 Manage post-refuelling operations | <ul style="list-style-type: none">3.1 Refurbishment and stowing of equipment is observed3.2 Recording and reporting of equipment unserviceabilities are completed3.3 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.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816>

Assessment Requirements for AVIW4034 Supervise aircraft refuelling

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 fuel quality control checks in accordance with workplace procedures
- conducting refuelling briefs
- identifying and correctly using relevant equipment
- implementing work health and safety (WHS)/occupational health and safety (OHS) procedures and relevant regulations
- implementing contingency plans
- interpreting and following operational instructions and prioritising work
- modifying 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
- reading, interpreting and following relevant regulations, instructions, procedures, information and signs
- reporting and/or rectifying problems, faults or malfunctions promptly, in accordance with workplace procedures
- selecting and using required personal protective equipment (PPE) conforming to industry and WHS/OHS standards
- 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:

- manufacturer instructions for equipment used in quality control processes
- problems that may occur when supervising refuelling of aircraft and appropriate action that should be taken in each case
- relevant information/documents:
 - airport airside driver handbook
 - conditions of service, legislation and industrial agreements including workplace agreements and awards
 - emergency procedure guides
 - flight schedules
 - induction and training materials
 - 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 (CASR) and Civil Aviation Orders and other regulations for quality control processes carried out when supervising aircraft refuelling
- relevant WHS/OHS and environmental procedures and regulations
- risks that exist when supervising refuelling of aircraft and related risk control procedures and precautions
- selection and correct fitment of PPE
- quality control principles and processes for supervising aircraft refuelling operations
- workplace procedures for conducting various quality control operations related to supervising aircraft refuelling.

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 must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational 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
- 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.

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