



Australian Government

AVIW0020 Refuel aircraft

Release: 1

AVIW0020 Refuel aircraft

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 refuel aircraft in compliance with relevant regulatory requirements and national operating standards.

It includes conducting pre-operational checks on fueller/dispenser vehicle and equipment, loading fueller and positioning fueller/dispenser vehicle. It also includes carrying out refuelling operations, completing post-refuelling operations and completing documentation.

This unit addresses aviation technical skill requirements (physical, mental and task-management abilities) related to equipment and system operations of 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.

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

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 Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

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| 1 Conduct pre-operational checks on fueller/dispenser vehicle and equipment | 1.1 Personal protective equipment (PPE) is selected and used in accordance with workplace procedures |
| | 1.2 Hazards are identified, risks are assessed and hazard management implemented |
| | 1.3 Pre-operational checks of fueller/dispenser vehicle and auxiliary equipment are conducted |
| | 1.4 Problems or defects identified during pre-operational checks are reported or rectified in accordance with workplace procedures and manufacturer requirements |
| | 1.5 Outcomes of pre-operational checks are reported and recorded |
| 2 Load fueller | 2.1 Vehicle is positioned at loading bay and all precautionary and reporting requirements are carried out |
| | 2.2 Vehicle is grounded and loading bay bonding lead is connected to fueller |
| | 2.3 Fueller is dipped and ullage is determined |
| | 2.4 Loading operations and quality control checks are completed |
| 3 Position fueller/dispenser vehicle | 3.1 Fueller/dispenser vehicle is moved to aircraft |
| | 3.2 Aircraft is approached following confirmation has been provided that is safe to approach the aircraft in accordance with the aircraft operator's manual suite and workplace procedures |
| | 3.3 Vehicle is positioned either underwing or standoff, depending on aircraft type |
| | 3.4 Appropriate precautions are taken to avoid risk of collision with aircraft control surfaces and engines |
| | 3.5 Fueller/dispenser vehicle is parked in a position that provides easiest route for evacuation in an emergency |
| 4 Carry out refuelling operations | 4.1 Vehicle is grounded and bonding lead is connected to aircraft |

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| | 4.2 | Pressure refuelling auxiliary equipment is positioned and hose is connected |
| | 4.3 | Hydrant dispenser delivery hoses and couplings are connected to aircraft and intake hose is connected to inlet coupler |
| | 4.4 | Aircraft is refuelled to required fuel quantity or tank capacity |
| 5 | Complete post-refuelling operations | |
| | 5.1 | Refuelling operations are completed |
| | 5.2 | Fuel sample is taken from filter sump/inlet and visual check is made prior to aircraft departure |
| | 5.3 | Hoses, couplings and auxiliary equipment are disconnected and stowed |
| | 5.4 | Hydrant dispenser lanyard is disconnected, and pit valve dust cover and hydrant pit lid are replaced |
| | 5.5 | Reel hoses are rewound and stowed |
| | 5.6 | Fueller/dispenser vehicle is driven either to depot or to next aircraft in accordance with workplace procedures, regulatory requirements and local instructions |
| 6 | Complete documentation | |
| | 6.1 | Hard copy documentation and paperwork is completed as required and airline representative's signature is obtained |
| | 6.2 | Electronic fuel management systems are used to report, record and verify refuel operations |

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.

Unit Mapping Information

This unit replaces and is equivalent to AVIW3006 Refuel aircraft.

Links

AVI Training Package Companion Volume Implementation Guide available on VET Net: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816>