



Australian Government

AVIY4007 Manage aircraft fuel

Release: 1

AVIY4007 Manage aircraft fuel

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 manage aircraft fuel, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority and national operating standards.

It includes planning fuel requirements, managing the fuel system, and refuelling aircraft.

This unit addresses aviation technical skill requirements (physical, mental and task-management abilities) related to aircraft operational duties of flight crew and ground 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

Y – Aircraft Operation and Traffic Management

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 Plan fuel requirements | <p>1.1 Total en route and reserve fuel requirement is determined in accordance with regulatory requirements</p> <p>1.2 Allowance is made for possible abnormal or emergency situation</p> |
| 2 Manage fuel system | <p>2.1 Fuel system including pumps, engine controls and cross-feed systems are operated in accordance with aircraft flight manual (AFM)/pilot's operating handbook (POH)</p> <p>2.2 Fuel quantity on-board is verified using two independent methods</p> <p>2.3 Fuel quality checks are confirmed before flight</p> <p>2.4 Fuel usage and status is monitored throughout flight and fuel log is accurately maintained</p> <p>2.5 Aircraft is configured to achieve desired profile, best range or endurance and operational endurance calculations are revised as required</p> <p>2.6 Work health and safety (WHS)/occupational health and safety (OHS) procedures are followed at all times</p> <p>2.7 Potential hazards are anticipated and precautions are applied</p> |
| 3 Refuel aircraft | <p>3.1 Aircraft is refuelled correctly in accordance with AFM/POH, WHS/OHS, regulatory requirements and workplace procedures</p> <p>3.2 Appropriate precautions are taken to ensure the safety of personnel and property during refuelling operations</p> |

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 AVIY4007B Manage aircraft fuel.

Links

Companion Volume implementation guides are found in VETNet -

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