



**Australian Government**

# **AVIW5018 Operate and manage aircraft systems**

**Release: 1**

# **AVIW5018 Operate and manage aircraft systems**

## **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 and manage aircraft systems, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards

It includes operating and managing aircraft systems during normal flight, and managing aircraft systems during abnormal and emergency procedures.

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.
<b>1 Operate and manage aircraft systems during normal flight</b>	<ul style="list-style-type: none"><li>1.1 Aircraft systems, sub-systems (equipment) and devices applicable to aircraft type and task are operated and managed</li><li>1.2 Aircraft systems, sub-systems (equipment) and devices are monitored using a systematic scan technique</li><li>1.3 Aircraft systems and flight environment information is analysed to identify actual and potential threats or errors</li><li>1.4 Automated aircraft systems are utilised to manage cockpit workload</li><li>1.5 Hazards are identified, risks are assessed and hazard management is implemented</li><li>1.6 Checklist procedures are completed as appropriate to aircraft system</li></ul>
<b>2 Manage aircraft systems during abnormal and emergency procedures</b>	<ul style="list-style-type: none"><li>2.1 Non-normal or emergency situations are recognised</li><li>2.2 Control of aircraft flight path is maintained during abnormal and emergency response procedures</li><li>2.3 Affected aircraft system or sub-system is identified and confirmed</li><li>2.4 Checklist procedures are recalled and implemented during abnormal and emergency situations using appropriate techniques</li><li>2.5 Appropriate non-normal or emergency procedures are performed in accordance with relevant workplace and emergency procedures, and regulatory requirements</li><li>2.6 Course of action is decided, implemented, evaluated and revised to achieve safest outcomes</li><li>2.7 Location and operation of emergency systems applicable to aircraft type are explained</li></ul>

## 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 AVIW5018A Operate and manage aircraft systems.

## Links

Companion Volume implementation guides are found in VETNet -

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