



Australian Government

AVIB3005 Inspect and report on aerodrome serviceability

Release: 1

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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 inspect and report on aerodrome serviceability, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes performing an aerodrome inspection, reporting hazardous situations, facilitating repairs and reporting the restoration of aerodrome serviceability.

This unit addresses aviation technical skill requirements (physical, mental and task-management abilities) related to aerodrome operations duties of ground operations personnel non-technical skills, 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.

Use for Defence Aviation is to be in accordance with relevant Defence Orders, Instructions, Publications and Regulations.

Pre-requisite Unit

Not applicable.

Competency Field

B – Equipment Checking and Maintenance

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 Inspect aerodrome serviceability	1.1	Access to aerodrome is arranged with appropriate authorities
	1.2	Aerodrome is inspected for hazards and serviceability
	1.3	Situations resulting in unserviceability of aerodrome are identified in accordance with workplace procedures
	1.4	Hazardous situation or unserviceability is rectified or made safe as required, in accordance with workplace procedures and regulatory requirements
2 Report hazardous situations and unserviceabilities	2.1	Requirements for official notification of hazardous situations or unserviceabilities, are assessed
	2.2	Relevant authorities or organisations are notified of hazardous situations or unserviceabilities, in accordance with workplace procedures and regulatory requirements
	2.3	Hazard reports and documentation is completed, filed and disseminated in accordance with workplace procedures
3 Facilitate repairs	3.1	Hazardous situations and unserviceabilities are rectified in accordance with workplace procedures and regulatory requirements, with minimal disruption to aircraft operations
	3.2	Relevant authorities or organisations are notified of works that may disrupt aircraft operations, in accordance with workplace procedures and regulatory requirements
	3.3	Temporary markers, markings and/or temporary aerodrome lighting are deployed as required to facilitate repairs
4 Report restoration of aerodrome serviceability	4.1	Restoration of aerodrome serviceability is confirmed in accordance with workplace procedures and regulatory requirements
	4.2	Temporary markers, markings and/or temporary aerodrome lighting used to facilitate repairs are removed
	4.3	Relevant authorities are notified of restoration of aerodrome serviceability in accordance with workplace procedures and regulatory requirements

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.

Aerodromes must include one or more of the following types:

- aerodrome environs:
 - areas surrounding navigational aids
 - buildings
 - drainage systems
 - fences and gates
 - obstacle limitation surfaces (OLS)
 - permanent or temporary structures in the aerodrome environment
- certified aerodromes
- Defence aerodromes
- joint-user aerodromes
- registered aerodromes
- other (unclassified) aerodromes

Aerodrome hazard and serviceability inspections must include:

- animal and bird hazards, and objects becoming hazards within obstacle limitation areas
- movement areas:
 - apron
 - clearway
 - runway and runway strip
 - runway end safety area (RESA)
 - taxiway and taxiway strip

Procedures for initiating repairs or dealing with hazards and/or unserviceabilities must include one or more of the following:

- accessing current weather information and public/aviation forecasts for the worksite
- closing aerodrome to all air traffic
- contacting aerodrome users
- dealing with the hazard
- ensuring lighting required to carry out works does not represent a hazard to aircraft operations
- extinguishing lighting to hazardous section of the movement area
- notifying appropriate aerodrome maintenance personnel or

	contractors
	• marking unserviceable area • notifying relevant aerodrome personnel • partial closure of the movement area • reporting by a Notice to Airmen (NOTAM) • serviceability inspection following repairs/rectification • undertaking repairs
Hazardous situations requiring reporting must include one or more of the following:	• aerodrome works • changes to temporary or permanent published aerodrome information • circuit failure • failure of: • aerodrome beacon • lighting to the wind indicator • obstacle lights • pilot activated lighting (PAL) • hazardous situations resulting in some or all of aerodrome becoming unserviceable • partial lighting failures (such as described in the Manual of Standards (MOS) Part 139 – Aerodromes) • power supply failure • restoration of aerodrome serviceability
Hazardous situations leading to aerodrome unserviceability must include one or more of the following:	• bird or animal activity • aerodrome works (such as Time Limited Work, major works requiring Method of Working Plan (MOWP)) • changes or loss of runway surface frictional characteristics • damaged fences or open gates • damaged wind indicator • disabled aircraft, vehicles, and equipment • excessive loose materials • faulty drains • flooding • fuel and oil spills • incorrect or unclear markers and unclear runway markings • long grass, surface cracks, stones and debris • loss of runway shape • loss of visibility of markings • potholes, cracks, scouring, ruts • runway edge fretting, and drop off • stripping • situations restricting effective operation of navigational aids such as:

Temporary aerodrome lighting must include one or more of the following:

- obstructions (trees, vehicles, structures)
- vehicle movements within restricted areas
- unsatisfactory bearing capacity
- vehicles, plant and equipment on movement area
- battery powered lights
- hard-wired portable lights
- kerosene flares
- solar powered lights
- vehicle lights

Unit Mapping Information

This unit replaces and is equivalent to AVIB3005A Inspect and report on aerodrome serviceability.

Links

Companion Volume implementation guides are found in VETNet -

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