



Australian Government

AVIB3006 Inspect and report on serviceability of aerodrome lighting systems

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

It includes inspecting and reporting faults in aerodrome lighting, making identified unserviceable condition/s safe, and confirming and reporting the return of aerodrome lighting to serviceable condition.

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

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

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 Inspect aerodrome lighting serviceability

- 1.1 Access to aerodrome is arranged with appropriate authorities
- 1.2 Lighting systems are prepared for serviceability inspection
- 1.3 Lighting systems are inspected for serviceability, and faults or hazardous situations that may affect aircraft safety are identified
- 1.4 Hazardous situation created by faulty lighting system/s is rectified or made safe as required, in accordance with workplace procedures and regulatory requirements

2 Report faults in aerodrome lighting

- 2.1 Requirement for official notification of lighting faults is assessed
- 2.2 Suitably qualified aerodrome staff or electrical contractors are contacted for repairs as required
- 2.3 Relevant authorities or organisations are notified of damage to aerodrome lighting, switching mechanisms and circuits in accordance with workplace procedures and regulatory requirements

3 Make unserviceable conditions safe

- 3.1 Faulty lights are replaced or repaired in accordance with workplace procedures and regulatory requirements, with minimal disruption to aircraft movements
- 3.2 Relevant authorities or organisations are notified of works that may disrupt aerodrome operations, in accordance with workplace procedures and regulatory requirements
- 3.3 Temporary lighting is installed as required

4 Report return of aerodrome lighting to serviceable condition

- 4.1 Restored aerodrome lighting systems are inspected and confirmed for serviceability
- 4.2 Temporary lighting is removed
- 4.3 Relevant authorities or organisations are notified of restoration of lighting 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.

Faults in aerodrome lighting must include one or more of the following:

- changes to temporary or permanent published aerodrome information
- electrical circuit failure
- failure of:
 - aerodrome beacon
 - wind indicator lighting
 - obstruction lights
 - pilot activated lighting (PAL)
- hazardous situations resulting in some or all of the aerodrome lighting becoming unserviceable
- partial lighting failures
- power supply failure
- restoration of aerodrome serviceability

Aerodrome movement area facilities must include:

- apron
- clearway
- markers, markings and aerodrome lighting
- runway and runway strip
- runway end safety area
- taxiway and taxiway strip

Temporary lighting must include one or more of the following:

- battery-powered lights
- hard-wired portable lights
- kerosene flares
- solar powered lights
- vehicle lighting

Workplace procedures for making a lighting problem safe must include:

- closing movement area (aerodrome closure)
- contacting aerodrome user
- partial closure of movement area

Suitable means of reporting must include one or more of the following:

- method of working plan (MOWP)
- Notice to Airmen (NOTAM)
- other written means of communication as appropriate (fax, email)

Procedures for initiating repairs or hazard removal must include one or more of the following:

- verbal communications
- notifying appropriate aerodrome lighting personnel or electrical contractors
- notifying relevant aerodrome personnel
- removing hazard/s
- serviceability inspection (following repairs)
- undertaking repairs

Unit Mapping Information

This unit replaces and is equivalent to AVIB3006A Inspect and report on serviceability of aerodrome lighting systems.

Links

Companion Volume implementation guides are found in VETNet -

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