



Australian Government

**Assessment Requirements for AVIB3006
Inspect and report on serviceability of
aerodrome lighting systems**

Release: 1

Assessment Requirements for AVIB3006 Inspect and report on serviceability of aerodrome lighting systems

Modification History

Release 1. This is the first release of this unit of competency in the AVI Aviation Training Package.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions on at least one occasion and include:

- adapting to differences in equipment and operating environment in accordance with workplace procedures
- applying relevant legislation and workplace procedures
- applying relevant systems (such as safety management systems [SMS]) and procedures to assess and/or mitigate risk that might arise during inspecting and reporting on serviceability of aerodrome lighting systems
- communicating effectively with others when inspecting and reporting on serviceability of aerodrome lighting systems
- completing documentation related to inspecting and reporting on serviceability of aerodrome lighting systems
- identifying and correctly using equipment required to inspect and report on serviceability of aerodrome lighting systems:
 - computer
 - hand tools
 - lights
 - maintenance equipment
 - markers
 - radio/s
 - non-ops/HF radio
 - airband/VHF radio
 - telephone
 - vehicle with flashing light
 - vehicle siren/loud speaker
- implementing work health and safety (WHS)/occupational health and safety (OHS) procedures and relevant regulations
- interpreting and following operational instructions and prioritising work
- modifying activities in accordance with workplace contingencies, situations and environments
- monitoring and anticipating operational problems and hazards and taking appropriate action

- monitoring work activities in terms of planned schedule
- operating electronic communications equipment to required protocols
- reading, interpreting and following relevant regulations, instructions, procedures, information and signs
- reporting faults in aerodrome lighting
- selecting and using required personal protective equipment (PPE) conforming to industry and WHS/OHS standards
- working collaboratively with others
- working systematically with required attention to detail without injury to self or others, or damage to goods or equipment.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- aerodrome layout including access routes
- aircraft schedules and their use in inspecting and reporting on serviceability of aerodrome lighting systems
- allowable minor repairs under electrical codes and workplace procedures, and arrangements for engaging a qualified electrician to carry out repairs
- basic features and characteristics of aerodrome lighting systems
- company logo/identification
- different operating conditions:
 - all weather conditions
 - day and night
 - variety of terrain conditions
 - various forms of transport such as vehicle, other motorised/towed equipment
- effects on serviceability of aerodrome caused by lighting faults
- equipment used in inspecting and reporting on serviceability of aerodrome lighting systems
- operation of airband radio equipment as used to communicate with air traffic control (ATC) and/or pilots
- orange or yellow painting or distinctive marking (of vehicles regularly used on movement area)
- permanent aerodrome lighting:
 - aerodrome beacon
 - approach lighting
 - apron:
 - edge lights
 - flooding lights

- illuminated wind indicators
- obstacle lighting
- pilot activated lighting (PAL)
- precision approach path indicator (PAPI)
- runway:
 - end identification lights
 - end lights
 - edge lights
 - threshold lights
- standby power
- taxiway:
 - centreline lights
 - edge lights
- 'T' visual approach slope indicator system (T-VASIS)
- problems, safety hazards and risks that exist when inspecting serviceability of aerodrome lighting systems and related assessment/management measures that may need to be taken into account
- procedures for servicing and minor maintenance of equipment used in inspecting and reporting serviceability of aerodrome lighting systems
- purpose and application of aerodrome markers, markings and temporary lighting
- radio frequencies applicable to the aerodrome:
 - automatic terminal information services (ATIS)
 - common traffic advisory frequency (CTAF)
 - other air traffic agencies (such as ATC or flight information region [FIR])
 - aerodrome weather information broadcast (AWIB)
- relevant information/documents:
 - Aerodrome Emergency Plan (AEP) and procedures to be followed for each aerodrome emergency
 - aerodrome Drug and Alcohol Management Plan (DAMP)
 - Aerodrome Manual
 - aerodrome SMS and safety/security policies and principles of risk assessment and risk management
 - aeronautical information publication (AIP)
 - AIP – En Route Supplement Australia (ERSA)
 - airline timetables
 - airside driver's handbook and/or airside driving requirements for the aerodrome
 - Australian Standards
 - conditions of service, legislation and industrial agreements including workplace agreements and awards
 - equipment manufacturer specifications for inspecting and reporting on aerodrome lighting systems

- induction and training material
- logbooks
- Manual of Standards (MOS Part 139 – Aerodromes)
- Notice to Airmen (NOTAM)
- operational checklists
- plans and maps
- relevant legislative and regulatory requirements relating to inspecting and reporting on the obstacle limitation surfaces (OLS) as identified in:
 - Civil Aviation Safety Regulations (CASRs) and MOS Part 139 – Aerodromes
 - Defence Orders and Instructions
 - environmental sustainability
 - standards and recommended practices (SARPs) of the International Civil Aviation Organization (ICAO)
 - workplace relations
 - WHS/OHS and environmental, procedures and regulations including Drug and Alcohol Management Plan (DAMP)
- reporting procedures
- requirements for completing relevant documentation and/or incident reporting
- vehicle or other mobile obstacle markings and equipment:
- warning lights (orange/amber/yellow) mounted to be visible through 360 degrees
- weather information and its implications for workplace operations
- workplace procedures for inspecting and reporting on serviceability of aerodrome lighting systems.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

As a minimum, assessment must satisfy applicable regulatory requirements, which include requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- acceptable means of simulation assessment
- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals
- relevant materials, tools, equipment and personal protective equipment currently used in industry.

Links

Companion Volume implementation guides are found in VETNet -

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