



Australian Government

AVIF0045 Facilitate the safety of aerodrome works and works site access

Release: 1

AVIF0045 Facilitate the safety of aerodrome works and works site access

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 facilitate the safety of aerodrome works and works site access in compliance with relevant regulatory requirements and national operating standards.

It includes preparing for aerodrome works, facilitating aerodrome access by vehicles and personnel, facilitating aerodrome works and completing aerodrome works.

This unit addresses aviation non-technical skill requirements (mental, social and personal-management abilities) related to safety management duties of ground operations personnel and contributes to safe and effective performance in complex aviation operational environments.

Operations are conducted as part of 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.

Pre-requisite Unit

Not applicable.

Competency Field

F – Safety Management

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.

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|--|---|
| 1 Prepare for aerodrome works | 1.1 Official notification of impending start to aerodrome works is confirmed with appropriate aerodrome personnel

1.2 Processes for safe conduct of aerodrome works are developed or adapted from relevant plans, drawings, procedures documents and method of working plans (MOWPs) in accordance with workplace procedures

1.3 Factors that may adversely affect the safety and/or security of an aviation workplace are determined

1.4 Workplace hazards are identified, risks are assessed and risk controls developed and implemented |
| 2 Facilitate aerodrome access by vehicles and personnel | 2.1 Access requirements and relevant authorisation for vehicles and personnel are determined in accordance with workplace procedures

2.2 Personnel, vehicles and equipment entering airside are inspected to ensure compliance with aerodrome requirements

2.3 Appropriate facilitation of works personnel and vehicles is maintained throughout period on airside

2.4 Vehicles are inspected to ensure they are marked in an appropriate manner |
| 3 Facilitate aerodrome works | 3.1 Unserviceability markers and barriers are positioned in accordance with workplace procedures and regulations

3.2 Aerodrome works are facilitated in accordance with MOWPs or other workplace procedures

3.3 Activities of personnel, vehicles and plant on movement area are managed to ensure aircraft safety

3.4 Works are completed in accordance with relevant MOWP or Notice to Airmen (NOTAM)

3.5 Updated notification information is issued to ensure continued safe conduct of aerodrome works and aircraft |

		operations
	3.6	Aerodrome is temporarily restored to operational status in accordance with workplace procedures and regulatory requirements as required by aircraft
4 Complete aerodrome works	4.1	Works area is cleared of personnel, vehicles and plant in a safe and timely manner, ensuring aerodrome has been restored to full operational status
	4.2	Works-affected area is inspected for serviceability in accordance with workplace procedures
	4.3	Aerodrome overall is inspected for serviceability in accordance with workplace procedures
	4.4	Relevant authorities or organisations are notified of aerodrome serviceability restoration in accordance with workplace procedures using suitable means of communication
	4.5	Relevant reports are completed, filed and disseminated in accordance with workplace procedures

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 AVIF3025 Facilitate the safety of aerodrome works and works site access.

Links

AVI Training Package Companion Volume Implementation Guide available on VET Net: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816>

Assessment Requirements for AVIF0045 Facilitate the safety of aerodrome works and works site access

Modification History

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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 standard operating procedures (SOPs)
- applying relevant legislation and workplace procedures
- applying relevant systems, such as aerodrome safety management system (SMS) and procedures to assess and/or mitigate risk that might arise when inspecting and reporting on aerodrome serviceability
- communicating effectively with others when providing workplace briefings or pre-start meetings to discuss aviation hazards, aircraft schedules, weather and contingencies amongst workers during prior to works
- completing relevant documentation
- identifying and correctly using equipment required to facilitate the safety of aerodrome works and works site access, including:
 - computer
 - hand tools
 - lights
 - maintenance equipment
 - markers
 - radio/s (non-ops/HF radio, airband/very high frequency (VHF) radio)
 - spills response kit
 - telephone
 - vehicle with flashing light
 - vehicle siren/loud speaker
- identifying unserviceability markers and cones, including:
 - displaced threshold markers
 - signal circle markers
 - unserviceability cones
 - unserviceability cross markers
 - unserviceability lighting

- implementing contingency plans
- implementing work health and safety (WHS) procedures and relevant regulations
- inspecting vehicles, including:
 - appropriate markings and lights
 - cleanliness to prevent the spread of weeds
 - company logo/identification
 - fuel and oil leakage
 - radio equipment as required
 - roadworthiness
 - secure loads
- 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 protocol
- reading, interpreting and following relevant instructions, regulations, procedures, information and signs
- responding appropriately to cultural differences in the workplace
- working tasks within aerodrome, including:
 - maintenance of markings and lights
 - major construction or repairs to movement area
 - minor repairs to pavements
 - mowing grass
 - painting and repainting
 - rolling surfaces
 - surveys and inspections
 - sweeping pavements
- updating and issuing notification information
- selecting and using required personal protective equipment (PPE) conforming to industry and WHS standards
- working collaboratively with others when facilitating the safety of aerodrome works and works site access
- 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
- aerodrome categories, including:
 - certified

- registered
- other
- aerodrome works classifications, including:
 - time limited works not affecting normal aircraft operations (movement area operational in less than 10 minutes)
 - time limited works requiring a Notice to Airmen (NOTAM), where normal aircraft operations are not affected (movement area not operational within 10-30 minutes)
 - works requiring method of working plan (MOWP) with proposed NOTAM for each stage of works
 - unscheduled/emergency works
 - unrestricted works (aerodrome closed)
- aircraft schedules and their use in facilitating the safety of aerodrome works and works site access
- different operating conditions, including:
 - all weather conditions
 - day or night
 - variety of terrain conditions
 - various forms of transport, such as vehicles and other motorised/towed equipment
- functions of a works safety officer
- inspection of personnel, including:
 - confirmation of authorisation to enter airside
 - confirmation of appropriate licence to operate vehicles and equipment
- aerodrome markings and signage
- aerodrome speed limits
- aerodrome terminology, signs and radio instructions
- directions from works safety officer
- required vehicle marking and lighting requirements
- vehicle restriction zones around aircraft, navigation beacons and lights
- operation of airband radio equipment
- physical characteristics of aircraft
- problems, safety hazards and risks that may occur when facilitating the safety of aerodrome works and works site access and related assessment/management measures that may need to be taken
- processes for the safe conduct of works, including:
 - identifying safe work vehicle movement areas
 - instructing work personnel
 - work procedures
- procedures for making movement area safe for aerodrome works, including:
 - accessing current weather information and public/aviation forecasts applicable to works site as required
 - closing aerodrome to all air traffic

- closing the movement area (aerodrome closure)
- contacting aerodrome users
- ensuring lighting required to carry out works does not represent a hazard to aircraft operations
- extinguishing lighting to hazardous section of movement area
- marking unserviceable area/s
- partial closure of movement area
- purpose and application of aerodrome markers, markings and temporary lighting
- purpose and application of MOWP
- reporting procedures
- relevant authorities for reporting purposes, including:
 - aerodrome operator or delegated person
 - aerodrome users
 - air traffic control (ATC)
 - Australian Defence Forces for military bases
 - Civil Aviation Safety Authority (CASA)
 - NOTAM Office (Airservices Australia)
- relevant information/documents, including:
 - 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
 - aerodrome transport security plan (TSP)
 - airline timetables
 - airside driver handbook and/or airside driving requirements for the aerodrome
 - Australian Standards
 - Civil Aviation Safety Regulations (CASRs)
 - conditions of service, legislation and industrial agreements, including workplace agreements and awards
 - induction and training materials
 - logbooks
 - Manual of Standards (MOS) Part 139 – Aerodromes
 - NOTAM
 - operational checklists
 - plans and maps
 - relevant forms and databases
 - safety data sheets (SDSs)/materials safety data sheets (MSDSs) for hazardous materials
 - workplace procedures
- relevant legislative and regulatory requirements relating to facilitating the safety of

aerodrome works identified in:

- CASRs and MOS Part 139 – Aerodrome
- 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 DAMP
- reporting procedures
- requirements for completing relevant documentation and/or incident reporting
- safety distances required from an aircraft wingtip to objects, including other aircraft
- signs and notices, including:
 - hazard warnings
 - limited access
 - movement area guidance signs
 - no smoking
 - speed restrictions
 - unauthorised entry
 - underground electrical reticulation
- suitable means of reporting the conduct of works, including:
 - MOWP
 - NOTAM
 - other written means of communications as appropriate
 - verbal communication
- weather information and its implications for workplace operations
- when serviceability inspections may need to occur
- workplace procedures for facilitating the safety of aerodrome works and works site access.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within 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 PPE currently used in industry.

Links

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