



Australian Government

AVIW0039 Perform down the wire duties

Release: 1

AVIW0039 Perform down the wire duties

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 perform down the wire duties in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes preparing for, responding to, performing and concluding winching operations. It also includes assessing winch sites and developing winch plans.

This unit addresses aviation technical skill requirements (physical, mental and task-management abilities) related to aircraft operational duties of flight crew and contributes to safe and effective performance in complex aviation operational environments.

Operations are conducted across a variety of operational contexts within the Australian aviation industry.

Licensing, legislative, regulatory or certification requirements are applicable to this unit.

Pre-requisite Unit

Not applicable.

Competency Field

W – Equipment and Systems Operations

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 and respond for winching operations | 1.1 Operation and task information is obtained from communications centre, briefing from supervisor or other sources |
| | 1.2 Winching equipment and resources are identified and selected based on task information received |
| | 1.3 Personal protective equipment is selected and checked based on the nature of the winching operation in accordance with workplace procedures |
| | 1.4 Anticipated situational and environmental hazards are discussed with crew members and incorporated into the winch plan |
| | 1.5 Personnel to be winched are briefed as required |
| 2 Assess winch site | 2.1 Risk assessment on situational and environmental hazards is conducted and control measures applied to ensure safety of self and others |
| | 2.2 Additional personnel or specialist equipment is requested as required for winching operations |
| 3 Develop winch plan | 3.1 Winch equipment and techniques suitable to the environment are identified |
| | 3.2 Personal capabilities and limitations of self and other team members are considered in the development of the winching plan |
| | 3.3 Primary and alternate winch plans are developed based on situational risk assessment |
| 4 Perform winch operations | 4.1 Communication with team members is maintained during winching operation in accordance with workplace procedures |
| | 4.2 Position of winching personnel are managed throughout operation |
| | 4.3 Winching equipment and personnel are managed in normal and abnormal winching situations in accordance with workplace procedures |
| | 4.4 Personnel are secured in aircraft in accordance with workplace procedures |

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| | 4.5 | Alternate winch plans are implemented when required |
| 5 Conclude winch operations | 5.1 | Equipment is recovered, cleaned and maintained in accordance with manufacturer guidelines and workplace procedures |
| | 5.2 | Debrief is conducted in accordance with workplace procedures |
| | 5.3 | Post-flight documentation is completed 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.

Non-essential conditions may be found in the Companion Volume Implementation Guide

Unit Mapping Information

This unit replaces but is not equivalent to AVIW0024 Perform down the wire duties.

Links

Companion Volume Implementation Guides are found in VETNet' -

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

Assessment Requirements for AVIW0039 Perform down the wire duties

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:

- applying aircraft safety procedures when performing down the wire duties, including:
 - implementing aviation safety emergency procedures
 - operating around aircraft
 - preparing for flight operations
- applying crew resource management principles
- applying precautions and required action to minimise, control or eliminate identified hazards
- applying relevant legislation and workplace procedures
- applying work health and safety procedures and relevant regulations
- completing relevant documentation
- completing winch operations
- giving and receiving verbal and non-verbal instructions related to performing down the wire duties
- identifying and using required communications technology
- interpreting and following operational instructions
- maintaining situational awareness
- performing equipment assembly
- reporting and rectifying any identified problems, faults or malfunctions promptly.

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:

- abnormal or emergency situations and responses:
 - aircraft malfunction
 - communications equipment failure
 - fouled cable
 - runaway malfunction

- spin and swing occurrences
- winch equipment malfunction
- winch stoppage
- winchee incapacitation
- aircraft safety, including day and night considerations
- approved workplace procedures and processes in relation to performing down the wire duties
- correct hoist and equipment configuration
- differences in communications equipment
- environment for winch operations
- hoist capabilities and limitations
- relevant hand signals
- relevant hoisting equipment
- relevant information and documentation
- relevant legislation, regulations and standards.

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 it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate 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
- applicable documentation, including workplace procedures, regulations, codes of practice and operation manuals
- relevant materials, tools, equipment and PPE currently used in industry.

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