



Australian Government

AVIY0095 Conduct winching operations

Release: 1

AVIY0095 Conduct winching operations

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 conduct winching operations from a helicopter in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes preparing for, performing and concluding winch operations. It also includes assessing winch site, developing winch plan and responding to winch emergencies and abnormal situations.

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

Y – Aircraft Operation and Traffic 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.

1 Prepare for winch operations

- 1.1** Operation and task information is obtained from communications centre, briefing from supervisor or other sources
- 1.2** Winching equipment is prepared and resources identified and selected based on task information received
- 1.3** Anticipated situational and environmental hazards are discussed with crew members and incorporated into the winch plan
- 1.4** Winch is prepared and checked for correct operation

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** Requests for additional personnel or specialist equipment for the winching are communicated as required

3 Develop winch plan

- 3.1** Wind speed and direction are determined
- 3.2** Approach and overshoot paths are determined
- 3.3** Winch equipment and techniques suitable to the environment are identified
- 3.4** Personal capabilities and limitations of self and other team members are considered in the development of the winch plan
- 3.5** Primary and alternate winch plans are developed based on situational risk assessment

4 Perform winch operations

- 4.1** Helicopter is manoeuvred to the most appropriate hover position to perform safe winching operations
- 4.2** Management of winching equipment and personnel in normal winching situations are conducted in accordance with workplace procedures
- 4.3** Aircraft operational and control checks are conducted as required
- 4.4** Communication with team members is maintained during winching operation in accordance with workplace procedures
- 4.5** Winching personnel or stores are deployed, monitored, retrieved and secured in accordance with workplace

procedures

4.6 Alternate winch plans are implemented when required

5 Respond to winch emergencies and abnormal situations

5.1 Winch emergencies and abnormal situations are identified, diagnosed and communicated to other flight crew

5.2 Winch emergency or remedial actions are undertaken to maintain safety of flight in accordance with workplace procedures

6 Conclude winch operations

6.1 Equipment is recovered, cleaned and maintained in accordance with manufacturer guidelines and workplace procedures

6.2 Winch is secured and checked for serviceability

6.3 Post-flight documentation is completed in accordance with workplace procedures

6.4 Debrief is conducted 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 AVIY0066 Conduct hoisting operations.

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 AVIY0095 Conduct winching operations

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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 crew resource management principles
- applying precautions and required action to minimise, control or eliminate identified hazards
- applying relevant legislation and workplace procedures
- assembling winching equipment
- completing relevant documentation
- determining wind speed and direction
- maintaining situational awareness
- modifying activities depending on operational contingencies, risk situations and environments
- operating winch and associated primary and alternate winch controls
- reporting and rectifying identified problems, faults or malfunctions promptly
- using communication skills for conning
- utilising winching 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:

- abnormal or emergency situations and responses
- aircraft approach and overshoot considerations
- aircraft control voice and communications procedures
- aircraft safety, including day and night considerations
- approved workplace procedures and processes for winching operations
- correct winch and equipment configurations
- relevant hand signals
- relevant helicopter aeronautical knowledge
- relevant legislation and workplace procedures

- relevant winching equipment
- winch capabilities and limitations
- winch emergency procedures
- winching considerations within a range of operational environments
- winching operations.

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 personal protective equipment (PPE) currently used in industry.

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