



Australian Government

AVIW3005 Operate aircraft push-out tug

Release: 1

AVIW3005 Operate aircraft push-out tug

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 operate an aircraft push-out tug, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes conducting pre-operational checks on a tug, operating tug, and conducting post-operational checks of tug.

This unit addresses aviation technical skill requirements (physical, mental and task-management abilities) related to equipment and system operations of ground operations 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

W – Equipment and Systems Operations

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 Conduct pre-operational checks on a tug

- 1.1 Personal protective equipment is selected and used in accordance with workplace procedures
- 1.2 Pre-operational checks of tug are conducted in accordance with workplace procedures and manufacturer instructions
- 1.3 Fluid levels are topped up as required
- 1.4 Equipment faults and malfunctions identified during pre-operational checks are rectified or reported in accordance with workplace procedures and regulatory requirements

2 Operate tug

- 2.1 Tug is manoeuvred to aircraft and positioned in preparation for aircraft ground manoeuvres or push-out operations in accordance with workplace procedures
- 2.2 Tug is coupled to aircraft in accordance with workplace procedures
- 2.3 Tug is operated in accordance with workplace procedures and manufacturer instructions
- 2.4 Hazards associated with operating tug are identified and appropriate precautions are taken in accordance with work health and safety (WHS)/occupational health and safety (OHS) regulations and workplace hazard management strategies
- 2.5 Aircraft ground manoeuvres and/or push-out of aircraft are conducted in accordance with directions of ground maintenance personnel and aircrew
- 2.6 Tug is uncoupled from aircraft at completion of required operations
- 2.7 Tug is manoeuvred to allocated parking or storage area at completion of scheduled haulage activities and is shut down

3 Conduct post-operational checks of tug

- 3.1 Post-operational checks of tug are conducted in accordance with workplace procedures and manufacturer instructions
- 3.2 Equipment faults and malfunctions identified during post-operational checks are rectified or reported in accordance with workplace procedures and regulatory requirements

- 3.3 Tug is refuelled and fluid levels are topped up in accordance with workplace procedures and manufacturer instructions
- 3.4 Equipment log or operational documentation is completed in accordance with workplace procedures, local instructions 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.

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| Aircraft push-out tug must include: | <ul style="list-style-type: none">• diesel engine tugs• electric battery-operated tugs |
| Aircraft push-out tugs must include one or more of the following: | <ul style="list-style-type: none">• aircraft push-back tug• aircraft tow motor• aircraft tow tractor• push back power unit (PPU)• tow tug (aircraft) |
| Aircraft ground manoeuvres must include one or more of the following: | <ul style="list-style-type: none">• movement of a defective aircraft• movement of an aircraft around an airport• push-out of an aircraft from a gate• transport of an aircraft to/from a hanger |
| Hazard must include: | <ul style="list-style-type: none">• dust• jet blast• noise• other vehicles in the vicinity of aircraft• personnel in the vicinity of aircraft |
| Personal protective equipment must include: | <ul style="list-style-type: none">• hearing protection• protective clothing• safety gloves• safety footwear |
| Pre-operational checks must include: | <ul style="list-style-type: none">• battery charge• fluid levels• fuel level |

- visual inspection for faults or defects

Unit Mapping Information

This unit replaces and is equivalent to AVIW3005B Operate aircraft push-out tug.

Links

Companion Volume implementation guides are found in VETNet -

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