



Australian Government

AVIY0042 Apply aeronautical knowledge and civil air law to flight dispatch operations

Release: 1

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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 apply aeronautical knowledge and civil air law to flight dispatch operations in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes identifying aviation regulations, utilising aviation terminology, applying knowledge of basic aircraft power plants and systems, and applying aerodynamic theory. It also includes applying knowledge of aviation navigation charts, aircraft operations, and performance and planning factors.

This unit addresses aviation technical skill requirements (physical, mental and task-management abilities) related to aircraft operational duties of flight dispatch and flight operations support 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.

Pre-requisite Unit

Not applicable.

Competency Field

Y – Aircraft Operation and Traffic Management

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 Identify aviation regulations

- 1.1 State/territory authority requirements and authorisations required for commercial and air transport operations are explained
- 1.2 Methods of exercising state/territory authority functions are identified
- 1.3 Requirements of an Air Operator Certificate (AOC) are applied
- 1.4 Role of International Air Transport Association (IATA), International Civil Aviation Organisation (ICAO) and other relevant aviation organisations is explained
- 1.5 Role of national aviation regulatory bodies and enterprise organisational structures is explained
- 1.6 Specific state/territory and enterprise regulations relating to dispatch of aircraft are applied to flight dispatch activities
- 1.7 International civil aviation convention provisions are identified

2 Utilise aviation terminology

- 2.1 Standard aeronautical terminology and phraseology is used to describe aviation operations
- 2.2 Flight direction is correctly explained using accepted units of measure and direction
- 2.3 Flight speed, distance and velocity terms are correctly explained and applied to flight dispatch activities
- 2.4 Aviation units of measure are utilised during flight dispatch operations

3 Apply knowledge of basic aircraft power plants and systems

- 3.1 Aircraft propulsion system types, principles and operational differences are followed
- 3.2 Propeller driven aircraft types and principles of operation are explained

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| | 3.3 | Jet-propelled aircraft types and principles of operation are explained |
| | 3.4 | Operator knowledge of aviation fuels and oils usage is applied to flight planning tasks |
| | 3.5 | Aircraft flight instruments are identified and their purpose explained |
| 4 | Apply basic aerodynamic theory | |
| | 4.1 | Basic aircraft operational states are explained in terms of kinetic and potential energy terms |
| | 4.2 | Standard aerodynamic terminology and phraseology is used to describe flight operations |
| | 4.3 | Wake turbulence and associated aircraft operational effects are applied to flight dispatch activities |
| | 4.4 | Thrust stream turbulence (jet blast/rotor downwash) hazards to flight operations are identified |
| 5 | Apply knowledge of aviation navigation charts | |
| | 5.1 | Visual chart types and major chart features displayed are explained |
| | 5.2 | Controlled airspace (CTA), prohibited, restricted and danger (PRD) areas are identified on appropriate visual charts |
| | 5.3 | Appropriate PRD data is determined and extracted for use in operational flight planning tasks |
| | 5.4 | Runway information and operational limitations data is extracted from en route supplements for use in operational flight planning tasks |
| 6 | Apply knowledge of aircraft operations, performance and planning | |
| | 6.1 | Aircraft airworthiness requirements and certification documentation are identified and correctly compiled |
| | 6.2 | Aircraft take-off and landing performance data is extracted from authorised sources and correctly used during aircraft performance planning |
| | 6.3 | Aircraft weight and balance planning factors are correctly outlined and used during aircraft loading calculations |

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 AVIY0010 Apply aeronautical knowledge and civil air law to flight dispatch operations.

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>