

Title	Demonstrate aerodrome control for air traffic services under simulated conditions		
Level	6	Credits	45

Purpose	People credited with this unit standard are able to: demonstrate knowledge of aerodrome control procedures for the provision of air traffic services; and analyse and manage traffic situations and apply aerodrome control procedures under simulated conditions.
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Classification	Aviation > Air Traffic Services
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Available grade	Achieved
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Prerequisites	Unit 28043, <i>Demonstrate knowledge of the use of ATS and simulation equipment in a tower environment under simulated conditions</i> ; Unit 28044, <i>Demonstrate knowledge of the principles of flight and aircraft performance for air traffic services</i> ; Unit 28046, <i>Demonstrate knowledge of air law and operational procedures relevant to air traffic services</i> ; Unit 28049, <i>Demonstrate knowledge of, and apply, principles of human performance in air traffic services</i> ; Unit 33165, <i>Demonstrate knowledge of aeronautical meteorology for air traffic services</i> ; and Unit 33167, <i>Demonstrate knowledge of air navigation for air traffic services</i> ; or demonstrate equivalent knowledge and skills.
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Guidance Information

- 1 The Civil Aviation Act 1990 and Civil Aviation Rule Part 65 detail the legislative requirements in relation to this unit standard. This unit standard is aligned to the Civil Aviation Act 1990, Civil Aviation Rule Part 65, which reflects International Civil Aviation Organisation (ICAO) Standards and Recommended Practices as adopted by New Zealand. This unit standard is also aligned to the associated Civil Aviation Advisory Circular (AC) 65 series containing the syllabus for Air Traffic Services Personnel Licences and Ratings, and Parts 65.103(a)(5)(vii), 65.303(a)(2)(ii), and 65.253(a). Information relating to Civil Aviation Authority of New Zealand (CAA of NZ) Rules can be obtained from the CAA of NZ website on <http://www.caa.govt.nz/>.
- 2 Evidence presented for assessment against this unit standard must be in accordance with standard industry texts.

- 3 The simulated air traffic management requirements covered by this unit standard must be demonstrated in accordance with the Civil Aviation Rules Part 172 and/or Part 175 and other relevant rules, published by the Civil Aviation Authority of New Zealand, PO Box 3555, Wellington 6140, and their subsequent amendments.
- 4 The management of air traffic services for this unit standard will be simulated. The simulation must be of a high standard and closely reflect the true-to-life visual environment of the sector and emulate or simulate the controller work position components along with environment of the relevant air traffic service unit or sector.
- 5 *Standard industry texts* include but are not limited to:
State approved documentation,
air traffic services (ATS) provider exposition,
Aerodrome Emergency plans,
published aviation training manuals or textbooks (including electronic resources).
- 6 Definitions
Abnormal refers to situations requiring the application of non-routine air traffic services procedures.
Complex refers to advanced air traffic skills requiring more than two or three tasks to be performed at any one time and with variable environment factors impacting upon the traffic situation.
Non-complex refers to basic air traffic skills not requiring more than two or three tasks to be performed at any one time and without variable environment factors impacting upon the traffic situation.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of aerodrome control procedures for the provision of air traffic services.

Performance criteria

- 1.1 Aerodrome control procedures are described.
- Range separations, coordinations, flight progress system, air traffic management.
- 1.2 The location-specific environment is described.
- Range aerodrome, airspace, terrain, weather, navigation aids, aerodrome and airspace users.

Outcome 2

Analyse and manage traffic situations and apply aerodrome control procedures under simulated conditions.

Range non-complex, complex, abnormal and/or emergency situations.

Performance criteria

- 2.1 The responsibilities of an aerodrome controller are explained.
- Range may include but is not limited to – tower service, flight progress system, clearances, watch keeping, runway selection, scanning, control of departures/arrivals, control of the circuit, surface movement of vehicles/aircraft.
- 2.2 The flight progress system is managed in accordance with documented procedures.
- 2.3 The interpretation of flight and meteorological information is disseminated in a timely manner.
- 2.4 The operation of ATS hardware and software is managed effectively.
- Range may include but is not limited to – flight data processing system (FDPS), aeronautical fixed telecommunication network (AFTN), voice communication systems including standby radios, flight progress system (FPS), signalling lamps, airfield lighting.
- 2.5 Situational awareness, as a basis for informed decision-making, is demonstrated.
- Range airspace, weather, terrain, pilotage, flight processing system, aircraft performance, scanning, prioritising of traffic and tasks, traffic flow is predicted, interpersonal factors.
- 2.6 Ground procedures for aircraft, vehicles, and pedestrians within an aerodrome perimeter are identified and applied as appropriate.
- Range manoeuvring area, movement area.
- 2.7 Traffic situations are critically analysed for potential conflict, and timely instructions and/or information are given to ensure a safe, orderly, and expeditious traffic flow.
- Range may include but is not limited to – vacating the circuit, joining the circuit, VFR transiting, IFR arrivals and departures, special VFR.
- 2.8 Timely and effective coordination and transfer of responsibilities are demonstrated using unambiguous, concise and standard phraseologies where documented.
- 2.9 Timely communication of flight instructions and information, using unambiguous and concise language and standard phraseology where documented, is demonstrated.
- Range tone, clarity, rate, readbacks.

2.10 Situations with potential to become unsafe are recognised and timely resolutions are applied.

Range may include but is not limited to – separations versus traffic information, aircraft performance, weather, pilot ability, available procedures, environmental factors.

2.11 Aerodrome control administrative documentation procedures are demonstrated.

Range may include but is not limited to – ATS logbooks, local unit orders, aerodrome emergency plans, safety and incident reports, in-flight emergency response checklist, handovers, opening/closing watch, billing, voice recorders.

Planned review date	31 December 2027
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 July 2007	31 December 2016
Review	2	21 November 2013	31 December 2016
Revision	3	20 November 2014	31 December 2026
Review	4	30 March 2023	N/A

Consent and Moderation Requirements (CMR) reference	0028
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Ringa Hora Services Workforce Development Council qualifications@ringahora.nz if you wish to suggest changes to the content of this unit standard.