

Title	Test aerodrome pavement integrity		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to: calibrate and set up aerodrome pavement testing equipment; conduct a pre-test check of documentation, personnel, and equipment; conduct a pavement integrity test; and record pavement integrity test results on database.
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Classification	Aviation > Airport Operations
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Available grade	Achieved
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Guidance Information

1 Definitions

Aerodrome means any defined area of land or water intended or designed to be used either wholly or partly for the landing, departure, and surface movement of aircraft; and includes any buildings, installations, and equipment on or adjacent to any such area used in connection with the aerodrome or its administration.

Pavement in the context of an aerodrome refers to a rigid, durable, and flexible surface designed to support a load placed upon it, and will normally consist of concrete, asphalt, or a composite material.

Works refers to construction and maintenance work at an airport.

The term *airport* refers to aerodrome as per Civil Aviation Rules.

- 2 Reference to *enterprise procedures* means that all activities must comply with the requirements contained in the current airport exposition, current airport company manuals and procedures, and any relevant legislative and/or regulatory requirements, which may include but are not limited to: Civil Aviation Act 1990, relevant Civil Aviation Rules, New Zealand Defence Force (NZDF) Policy.

Outcomes and performance criteria

Outcome 1

Calibrate and set up aerodrome pavement testing equipment.

Performance criteria

- 1.1 Equipment is assembled prior to testing in accordance with enterprise procedures.

1.2 Test equipment components are checked and calibrated in accordance with enterprise procedures and manufacturer's specifications.

Range may include but is not limited to – active gauge, spare gauge, beam gauge, battery and buzzer.

1.3 Test equipment is set up in accordance with enterprise procedures.

Range may include but is not limited to – leg adjustment, rigidity of fittings, dial gauge, pivot axle.

Outcome 2

Conduct a pre-test check of documentation, personnel, and equipment.

Performance criteria

2.1 Authorisation of works form is obtained in accordance with enterprise procedures.

2.2 Necessary personnel are called to briefing and briefed in accordance with enterprise procedures.

2.3 Test equipment is positioned, adjusted, and checked in accordance with enterprise procedures.

Range checks may include but are not limited to – beam gauge, pavement cross-fall, plate height, dial gauge, dump truck; evidence of four checks is required.

Outcome 3

Conduct a pavement integrity test.

Performance criteria

3.1 Readings are taken and monitored at designated locations in accordance with enterprise procedures.

Range may include but is not limited to – start point, intermediate, final.

3.2 Differentials in readings are analysed in accordance with enterprise procedures.

Outcome 4

Record pavement integrity test results on database.

Performance criteria

4.1 Menu selected is in accordance with the required activity and enterprise procedures.

4.2 Mapping data are collated prior to input in accordance with enterprise procedures.

4.3 Data are entered in accordance with enterprise procedures.

Range may include but is not limited to – defect dates, airport areas, slab inspection sheets.

4.4 Defect ratings are calculated to determine pavement ratings in accordance with enterprise procedures.

Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 August 1997	31 December 2016
Revision	2	8 May 2001	31 December 2016
Review	3	24 May 2002	31 December 2016
Review	4	21 November 2008	31 December 2016
Review	5	24 October 2014	31 December 2023
Review	6	29 July 2021	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 ServiceIQ qualifications@serviceiq.org.nz if you wish to suggest changes to the content of this unit standard.