

Title	Inspect for, identify, and repair aerodrome pavement defects		
Level	4	Credits	8

Purpose	People credited with this unit standard are able to: inspect aerodrome pavement for defects; identify environmental and loading factors; and maintain and repair aerodrome pavement defects.
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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 building, 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.

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

Inspect aerodrome pavement for defects.

Performance criteria

- 1.1 Inspection of aerodrome pavement is conducted in accordance with enterprise procedures.

Range may include but is not limited to – weekly, monthly, annual survey; high-visibility clothing, communications monitored, vehicle and aircraft movement awareness maintained.

1.2 Any defects are classified in accordance with enterprise procedures.

Range may include but is not limited to – holes, spalls, cracks, discolouration, minor impact damage, honeycombing.

1.3 Record of runway creep is maintained and reported to the airport company in accordance with enterprise procedures.

Outcome 2

Identify environmental and loading factors.

Performance criteria

2.1 Environmental factors are identified in accordance with enterprise procedures.

Range may include but is not limited to – discolouration, cavitations, water retention, chemical contaminants, heat, cold.

2.2 Loading factors are identified in accordance with enterprise procedures.

Range may include but is not limited to – runway aircraft loads, structures.

Outcome 3

Maintain and repair aerodrome pavement defects.

Performance criteria

3.1 Pavement quality is monitored in accordance with enterprise procedures.

3.2 Any instances of multiple defects are dealt with in accordance with enterprise procedures.

3.3 Any environmental conditions causing damage and/or deterioration are removed and/or reduced in accordance with enterprise procedures.

Range may include but is not limited to – re-directing runoff; eliminating causes of cavitations; dealing with contaminants, waterproofing membranes, bonding agents, shrinkage compensating materials.

3.4 Annual validation of major defects is carried out in accordance with enterprise procedures.

3.5 Reporting is conducted 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
Revision	3	3 May 2002	31 December 2016
Revision	4	22 July 2005	31 December 2016
Review	5	21 November 2008	31 December 2016
Review	6	24 October 2014	31 December 2023
Review	7	29 July 2021	N/A

Consent and Moderation Requirements (CMR) reference

0028

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.