41112 Supervise friction testing operations of airport runways and aerodrome pavement testing operations

Kaupae | Level	5
Whiwhinga | Credit	10
Whāinga | Purpose	People credited with this skill standard are able to supervise friction testing operations of airport runways, and aerodrome pavement testing operations, ensuring a focus on safety, compliance, coordination, and communication.

Hua o te ako me Paearu aromatawai \| Learning outcomes and assessment criteria

Hua o te ako | Learning outcomes	**Paearu aromatawai |** Assessment criteria
1. Supervise friction testing operations of airport runways.	a. Prepare for friction testing operation of airport runways.
	b. Monitor conduct of friction testing operation of airport runways.
	c. Record and process friction testing operation information.
	d. Manage reporting and communication of friction testing results.
2. Supervise aerodrome pavement testing operations.	a. Prepare for aerodrome pavement testing operations.
	b. Monitor conduct of aerodrome pavement testing operations.
	c. Record and process aerodrome pavement testing information.
	d. Manage reporting and communication of pavement testing results.

Pārongo aromatawai me te taumata paearu \| Assessment information and grade criteria

Assessment specifications:

Preparation for friction testing could include determining friction test type, arranging approved contractor, checking provided equipment.

Monitoring conduct of friction testing could include monitoring calibration of equipment, checking establishment of baseline values, monitoring friction testing operation.

Preparation for aerodrome pavement testing could include determining test type, approving contractor, checking appropriateness of equipment.

Monitoring conduct of aerodrome pavement testing could include checking calibration of test equipment, monitoring testing operation.

Assessments must be conducted in an active airport environment to ensure practical application to reflect the standards of an aviation workplace.

Evidence presented for assessment against this skill standard must be in accordance with enterprise procedures.

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.

Airport refers to aerodrome as per Civil Aviation Rules.

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 2023, relevant Civil Aviation Rules, New Zealand Defence Force (NZDF) Policy.

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.

Ngā momo whiwhinga* | *Grades available

Achieved

Ihirangi waitohu | Indicative content

Preparation for friction testing

- Types of friction tests (e.g. continuous friction measuring equipment, spot testing).
- Criteria for selecting test type based on runway conditions and operational needs.
- Contractor engagement protocols and approval processes.
- Equipment requirements and specifications for friction testing.
- Pre-test equipment checks and documentation procedures.

Monitoring friction testing operations

- Calibration procedures for friction testing equipment.
- Establishing and validating baseline friction values.
- Monitoring techniques during active testing (e.g. observing test runs, ensuring procedural compliance).
- Safety protocols during testing operations.
- Troubleshooting common issues during testing.

Preparation for pavement testing

- Types of pavement tests (e.g. structural integrity, friction, surface condition).
- Criteria for selecting appropriate test types.
- Contractor approval processes: qualifications and certifications, compliance with enterprise procedures.
- Equipment selection and verification: common testing equipment (e.g. friction testers, deflectometers), suitability for different pavement types, pre-use checks and documentation.

Monitoring testing operations

- Calibration procedures for test equipment.
- Monitoring techniques: observational checks, communication with contractors, ensuring adherence to safety and procedural standards.
- Troubleshooting and responding to anomalies during testing.

Recording and processing test data

- Data recording formats and tools (manual and digital).
- Interpretation of friction test results (e.g. Mu values, thresholds).
- Data validation and accuracy checks.
- Reporting requirements and data submission protocols.
- Integration of test results into airport maintenance and safety systems.
- Interpretation of results for operational decision-making.
- Archiving and retrieval of test records for audits and inspections.

Managing reporting and communication

- Preparation of formal test reports in accordance with enterprise and regulatory requirements.
- Distribution of reports to relevant stakeholders (e.g. airport operations, maintenance teams, regulatory bodies).
- Use of friction test results to inform operational decisions (e.g. runway maintenance scheduling, NOTAM issuance).
- Use of pavement test results to inform operational decisions (e.g. pavement maintenance scheduling, NOTAM issuance).
- Ensuring data integrity and traceability in reporting processes.
- Responding to audit queries and inspections with appropriate documentation.
- Confidentiality and data protection considerations.

Communication and coordination

- Liaising with contractors, airport operations teams, and regulatory bodies.
- Communicating test schedules and outcomes to relevant stakeholders.
- Responding to queries or concerns arising from test results.

Rauemi | Resources

AIP New Zealand GEN 3.1 Aeronautical Information Services

CAA Advisory Circular AC139-3 Aerodrome Inspection Programme and Condition Reporting

CAA Advisory Circular AC139-5 Operational Safety During Works on Aerodromes

CAA Advisory Circular AC139-9 Notification of aerodrome data and information

CAA Advisory Circular AC139-10 Control of Obstacles

CAA Advisory Circular AC139-13 Aerodrome Maintenance – Runway Surface Friction Characteristics and Friction Testing

Civil Aviation Rule Part 139 Aerodromes – Certification, Operation and Use

NOTAM Guidelines for Operators and Originators

Enterprise procedures.

Pārongo Whakaū Kounga | Quality assurance information

Ngā rōpū whakatau-paerewa | Standard Setting Body	Ringa Hora Services Workforce Development Council
Whakaritenga Rārangi Paetae Aromatawai | DASS classification	Service Sector > Aviation > Airport Operations
Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga | CMR	0112

Hātepe | Process	**Putanga |** Version	**Rā whakaputa |** Review Date	**Rā whakamutunga mō te aromatawai |** Last date for assessment
Rēhitatanga | Registration	1	18 December 2025	N/A
Kōrero whakakapinga | Replacement information	This skill standard replaced unit standards 25203 and 25204.		
Rā arotake | Planned review date	31 December 2030		

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