

Title	Carry out aeronautical NDT inspections using ultrasonic testing methods		
Level	4	Credits	28

Purpose	People credited with this unit standard are able to: prepare aeronautical parts for NDT (non destructive testing) inspections using ultrasonic testing methods; inspect aeronautical parts using ultrasonic testing methods; and complete post-inspection tasks.
----------------	--

Classification	Aeronautical Engineering > Aeronautical Non Destructive Testing
-----------------------	---

Available grade	Achieved
------------------------	----------

Prerequisites	<p>Candidates must pass the following vision examination:</p> <p>Near vision acuity Natural or corrected near-distance acuity in at least one eye to show that the applicant is able to:</p> <ul style="list-style-type: none"> – read a minimum of Jaeger Number 2 or equivalent type and size letter at a distance of not less than 30.5 cm (12 inches) on a standard Jaeger test chart; or – perceive an Ortho-Rater minimum of 8 (or similar test pattern).
----------------------	--

Guidance Information

- 1 All tasks must be carried out in accordance with enterprise procedures.
- 2 Definition
Enterprise procedures – procedures used by the organisation carrying out the work and applicable to the tasks being carried out. Examples are – standard operating procedures, safety procedures, equipment operating procedures, codes of practice, quality management practices and standards, procedures to comply with legislative and local body requirements.

Outcomes and performance criteria

Outcome 1

Prepare aeronautical parts for NDT inspections using ultrasonic testing methods.

Performance criteria

- 1.1 Task is determined by reviewing maintenance documentation and enterprise procedures.
- 1.2 Work area is prepared, and resources are obtained and checked for serviceability or status.
- Range may include but is not limited to – publications, materials, tools, equipment, safety equipment, environmental conditions established.
- 1.3 Aeronautical part is matched with documentation by comparing serial and/or part numbers.
- 1.4 Part is prepared for inspection.
- Range clean surface finish.
- 1.5 Inspection equipment is set up and calibrated.
- Range reference standard, probe, instrument.

Outcome 2

Inspect aeronautical parts using ultrasonic testing methods.

Performance criteria

- 2.1 Ultrasonic equipment is operated.
- 2.2 Part is inspected.
- Range inspection equipment, standards, specifications, precision measuring equipment.

Outcome 3

Complete post-inspection tasks.

Performance criteria

- 3.1 Inspected part is prepared.
- Range may include but is not limited to – storage, transit, post-test clean, inhibit, blank, pack.
- 3.2 Resources are checked for serviceability and returned to service or storage.
- Range may include but is not limited to – tools, equipment, safety equipment, publications.

3.3 Leftover materials are disposed of.

Range may include but is not limited to – serviceable, unserviceable, waste, hazardous.

3.4 Documentation is completed.

Range may include but is not limited to – labels, work cards, logbooks.

3.5 Work environment is left in a state that enables the next task to begin.

Planned review date	31 December 2024
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	23 April 1996	31 December 2016
Revision	2	7 August 1997	31 December 2016
Revision	3	8 May 2001	31 December 2016
Review	4	20 June 2006	31 December 2016
Review	5	24 October 2014	31 December 2021
Review	6	26 March 2020	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.