<table>
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<th>Title</th>
<th>Carry out aeronautical NDT inspections using optically aided methods</th>
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<tr>
<td>Level</td>
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<td>Credits</td>
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**Purpose**
People credited with this unit standard are able to: prepare aeronautical parts for NDT (non destructive testing) inspections using optically aided methods; inspect aeronautical parts using optical aided methods; and complete post-inspection tasks.

**Classification**
Aeronautical Engineering > Aeronautical Non Destructive Testing

**Available grade**
Achieved

**Prerequisites**
Candidates must pass the following vision examinations:

Near vision acuity
Natural or corrected near-distance acuity in at least one eye to show that the applicant is able to:
- 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).

Colour contrast differentiation
Capable of distinguishing and differentiating contrast among colours used in the method.

**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.

3. Optically aided inspections may include RVI (Remote Visual Inspection), RDVI (Remote Digital Visual Inspection).
Outcomes and performance criteria

Outcome 1

Prepare aeronautical parts for NDT inspections using optically aided 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 may include but is not limited to – lighting, optical aids.

Outcome 2

Inspect aeronautical parts using optically aided methods.

Performance criteria

2.1 Part is inspected.

   Range may include but is not limited to – 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, 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.

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Planned review date 31 December 2024

Status information and last date for assessment for superseded versions

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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.