Title	Visually inspect aircraft metal structures		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to prepare to carry out visual inspections of aircraft metal structures; and visually inspect aircraft metal structures.
	visually inspect all craft metal structures.

Classification	Aeronautical Engineering > Aircraft Structures
Available grade	Achieved

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 Structures may include metal structures, main frames, auxiliary structures, plates or skin, attached fittings, aerodynamic fairings, flight control surfaces, doors, rigid integral fuel tanks.
- 4 Structural components do not need to be removed from the aircraft to meet the performance criteria of this unit standard.

Outcomes and performance criteria

Outcome 1

Prepare to carry out visual inspections of aircraft metal structures.

Performance criteria

- 1.1 Inspection requirements are determined by reviewing maintenance documentation and enterprise procedures.
- 1.2 Work area is prepared, and resources obtained and checked.

Range may include but is not limited to – publications, cleaning materials, tools, safety equipment, illumination, magnifying glass, mirror.

1.3 Structural area to be inspected is cleaned.

Outcome 2

Visually inspect aircraft metal structures.

Performance criteria

- 2.1 Structures are visually inspected.
- 2.2 Defects are located and identified.
 - Range may include but is not limited to cracking, corrosion, distortion, leaks, fretting, stress, scoring, loose fasteners, damage to protective finish, wear delamination.
- 2.3 Aircraft is inspected after an abnormal occurrence.
 - Range may include but is not limited to heavy landing, bird strike, lightning strike, extreme turbulence, foreign object damage, corrosive substance spillage, flap down overspeed; evidence is required for a minimum of three types of occurrence.
- 2.4 Any defects found during inspection are reported and documented.
- 2.5 Documentation is completed.

Replacement information	This unit standard and unit standard 28139 replaced unit standard 4074.
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Planned review date	31 December 2027

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	17 July 2014	31 December 2021
Review	2	26 March 2020	N/A
Rollover and Revision	3	26 April 2024	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 Ringa Hora Services Workforce Development Council <u>qualifications@ringahora.nz</u> if you wish to suggest changes to the content of this unit standard.