Title	**Identify and remove light corrosion from the surfaces of aircraft structure**		
Level	**3**	**Credits**	**4**

Purpose	This is an entry-level unit standard for people entering the aeronautical engineering industry. People credited with this unit standard are able to: identify corrosion damage on an aircraft structure; remove light corrosion from the surface of an aircraft structure; and clean area and equipment.

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 This standard may be assessed against on or off job in a real or simulated aeronautical engineering environment.

Outcomes and performance criteria

Outcome 1

Identify corrosion damage on an aircraft structure.

Performance criteria

1.1 Signs of corrosion are identified through visual inspection.

Range may include but are not limited to – surface deformed, paint blistered or flaked, powder, discolouration.

1.2 The type of corrosion is identified.

Range may include but is not limited to – uniform etch, pitting, intergranular, exfoliation, filiform, galvanic, fretting, dissimilar metal.

1.3 The severity of corrosion damage is determined and reported.

Outcome 2

Remove light corrosion from the surface of an aircraft structure.

Performance criteria

2.1 Corrosion removal method is selected.

Range may include but is not limited to – light mechanical, manual removal, chemical.

2.2 Materials and tools used for corrosion removal are assembled.

Range may include but is not limited to – personal protective equipment applicable to task, micro grinder, sanders, plastic media blasting equipment, abrasive pads, abrasive papers, chemicals.

2.3 Surface is prepared, and corrosion is removed.

2.4 Chemical surface conversion is carried out.

Outcome 3

Clean area and equipment.

Performance criteria

3.1 Surface is cleaned of all chemical residue and mechanical media.

3.2 Equipment is cleaned.

3.3 Equipment is checked for serviceability and unserviceable items are dealt with.

3.4 Waste material is removed and disposed of or stored.

Range may include but is not limited to – legislation, regulations and codes for the storage and disposal of hazardous and toxic materials, Material Safety Data Sheets.

3.5 Documentation is completed.

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	19 September 2013	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 qualifications@ringahora.nz if you wish to suggest changes to the content of this unit standard.