Title	Repair and fabricate aeronautical component parts by brazing or soldering			
Level	4	Credits	6	

Purpose	People credited with this unit standard are able to: prepare to repair and fabricate aeronautical component parts by brazing or soldering; set up soldering or brazing equipment; solder or braze aeronautical component parts; prepare aeronautical components; and carry out task completion activities.
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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.

Outcomes and performance criteria

Outcome 1

Prepare to repair and fabricate aeronautical component parts by brazing or soldering.

Performance criteria

- 1.1 Component identity is confirmed with documentation by comparing serial and part numbers.
- 1.2 Task is established and documented.
- 1.3 Work area is prepared, and resources are obtained and checked for serviceability or status.
 - Range may include but is not limited to publications, materials, tooling, equipment, safety equipment, environmental conditions established.

Outcome 2

Set up soldering or brazing equipment.

Performance criteria

- 2.1 Equipment is prepared.
 - Range set up, made safe to work on, guards positioned, isolation procedures complied with, protective equipment.
- 2.2 Equipment serviceability is checked.
- 2.3 Sequence of operations is planned and verified.

Outcome 3

Solder or braze aeronautical component parts.

Performance criteria

- 3.1 Parts are soldered or brazed.
- 3.2 Parts are measured and checked for conformity with specifications.
 - Range dimensional and angular accuracy, profile, surface finish, mismatch of cuts.
- 3.3 Any defects are reported, recorded, and rectified.

Outcome 4

Prepare aeronautical components.

Performance criteria

- 4.1 Components are prepared.
 - Range may include but is not limited to use, storage, transit, surface protection, packing.
- 4.2 Documentation is completed.

Outcome 5

Carry out task completion activities.

Performance criteria

- 5.1 Completion activities specific to the task and work area are carried out.
 - Range may include but is not limited to tool control, cleanliness, tidiness, return of publications, preparation for next activity, return of aircraft and systems to normal.
- 5.2 Leftover items, parts, and materials are disposed of.
 - Range may include but is not limited to serviceable, unserviceable, surplus, waste, scrap, hazardous.

Planned review date	31 December 2027
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	19 June 1995	31 December 2016
Revision	2	7 August 1997	31 December 2016
Revision	3	8 May 2001	31 December 2016
Review	4	26 March 2007	31 December 2016
Review	5	18 June 2014	31 December 2017
Review	6	21 January 2016	31 December 2021
Review	7	26 March 2020	N/A
Rollover and Revision	8	26 April 2024	N/A

Consent and Moderation Requirements (CMR) reference	0028			
This CMR can be accessed at http://www.nzga.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.