| Title | Repair aircraft global positioning system components |         |    |
|-------|--|---------|----|
| Level | 4  | Credits | 30 |

| Purpose | People credited with this unit standard are able to: prepare to repair aircraft global positioning system components; locate defects in aircraft global positioning system components; repair aircraft global positioning system components; test and adjust aircraft global positioning system components; and complete the repair task. |
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|         | '   |

| Classification | Aeronautical Engineering > Avionic Radio Repair |
|----------------|---|
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| Available grade | Achieved |
|-----------------|----------|
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### **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 The repair activities referred to in this unit standard are those usually carried out in a specialist bay or workshop on components that have been removed from the aircraft.
- 4 Global positioning system components may include controls, displays, antennas.

# **Outcomes and performance criteria**

#### Outcome 1

Prepare to repair aircraft global positioning system components.

### Performance criteria

1.1 Task is determined by reviewing maintenance documentation and enterprise procedures.

Range confirm fault, repair, modify.

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1.2 Work area is prepared, and resources 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 Component identity is matched with documentation.
- 1.4 Component is prepared for repair.

Range clean, inspect, assess economics of carrying out repair.

1.5 Next task is determined and documented.

Range locate defects, repair, test, adjust, complete the task.

# **Outcome 2**

Locate defects in aircraft global positioning system components.

#### Performance criteria

- 2.1 Defects are located using troubleshooting techniques and inspection procedures appropriate to the defect indications.
- 2.2 Any defects are reported and documented.

# **Outcome 3**

Repair aircraft global positioning system components.

# Performance criteria

3.1 Component is disassembled.

Range clean, label, preserve, segregate, store.

- 3.2 Rectification action is determined and documented.
- 3.3 Parts are procured and verified as authentic and serviceable.

Range identify, inspect.

3.4 Defects are rectified.

Range repair, replace, modify, adjust.

3.5 Component is assembled.

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3.6 Inspections are obtained.

Range independent, progressive.

### **Outcome 4**

Test and adjust aircraft global positioning system components.

#### Performance criteria

- 4.1 Component is prepared for testing.
- 4.2 Component is tested and adjusted.

Range may include but is not limited to – troubleshoot, functionally test,

calibrate, adjust, document adjustments and performance.

4.3 Inspections are obtained.

Range independent, progressive.

#### **Outcome 5**

Complete the repair task.

### Performance criteria

5.1 Component is prepared.

Range may include but is not limited to – use, storage, transit, locking,

blanking, packing, shelf-life requirement.

5.2 Resources are checked for serviceability and returned to service or storage.

Range may include but is not limited to – tools, equipment, safety

equipment, publications.

5.3 Leftover parts and materials are disposed of.

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

surplus, waste, scrap, hazardous.

5.4 Documentation is completed.

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

notes.

5.5 Work area is left in a state that enables the next task to begin.

| Planned review date 31 December 2027 | 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 June 1995      | 31 December 2016         |  |
| Revision              | 2       | 7 August 1997     | 31 December 2016         |  |
| Revision              | 3       | 8 May 2001        | 31 December 2016         |  |
| Review                | 4       | 19 May 2006       | 31 December 2016         |  |
| Revision              | 5       | 21 September 2007 | 31 December 2016         |  |
| Review                | 6       | 24 October 2014   | 31 December 2022         |  |
| Review                | 7       | 23 July 2020      | N/A                      |  |
| Rollover and Revision | 8       | 27 June 2024      | N/A                      |  |

| Consent and Moderation Requirements (CMR) reference | 0028 |
|---|------|
|---|------|

This CMR can be accessed at <a href="http://www.nzqa.govt.nz/framework/search/index.do">http://www.nzqa.govt.nz/framework/search/index.do</a>.

# Comments on this unit standard

Please contact Ringa Hora Services Workforce Development Council <a href="mailto:qualifications@ringahora.nz">qualifications@ringahora.nz</a> if you wish to suggest changes to the content of this unit standard.