| Title | Maintain aircraft engine air systems | | |
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| **Level** | **4** | **Credits** | **15** |

| Purpose | People credited with this unit standard are able to: prepare to maintain aircraft engine air systems; locate defects in engine air systems; restore airworthiness of engine air systems; and complete finishing activities related to maintaining engine air systems. |
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| Classification | Aeronautical Engineering > Aircraft Mechanical Maintenance |
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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 maintenance activities referred to in this unit standard are those normally carried out on an aircraft in a hangar.

4    The scope of the system that this standard relates to is described in ATA iSpec 2200, chapter 75.

## Outcomes and performance criteria

### Outcome 1

Prepare to maintain aircraft engine air systems.

### Performance criteria

1.1      Task is determined by reviewing maintenance documentation.

1.2      Resources are obtained and checked for serviceability or status.

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

1.3  Aircraft registration and system to be maintained are matched with documentation.

1.4  Aircraft and system are prepared for the application of power and for system operation.

   Range  may include but is not limited to – cockpit controls match component positions, clearances obtained, isolation tags, warning signs.

1.5  Ground and/or support equipment is positioned ready for system operation.

## Outcome 2

Locate defects in engine air systems.

## Performance criteria

2.1  Serviceability is determined.

   Range  inspect, assess, test.

2.2  Defects are reported and documented.

## Outcome 3

Restore airworthiness of engine air systems.

## Performance criteria

3.1  Methods of rectifying defects are determined.

3.2  Replacement parts are procured and verified as authentic and serviceable.

   Range  identify, inspect.

3.3  Defects are rectified.

   Range  may include but is not limited to – repair, replace, modify, adjust, calibrate, lubricate.

3.4  System is tested to verify serviceability.

3.5  Inspections are obtained.

## Outcome 4

Complete finishing activities related to maintaining engine air systems.

**Performance criteria**

4.1        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, return of system and/or aircraft to
                        normal, preparation for next activity.

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

           Range        tools, equipment, safety equipment.

4.3        Leftover parts and materials are disposed of.

           Range        may include but is not limited to – serviceable, unserviceable,
                        surplus, waste, scrap, hazardous.

4.4        Documentation is completed.

| 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 | 25 September 2006 | 31 December 2016 |
| Review | 5 | 17 July 2014 | 31 December 2021 |
| Review | 6 | 26 March 2020 | N/A |
| Rollover and Revision | 7 | 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.