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| Title | Maintain aircraft hydraulic systems | | |
| Level | 4 | Credits | 20 |

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| Purpose | People credited with this unit standard are able to: prepare to maintain aircraft hydraulic systems; locate defects in hydraulic systems; restore airworthiness of hydraulic systems; and complete finishing activities related to maintaining hydraulic 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 Aircraft hydraulic systems are from the reservoir to actuators.
- 4 The maintenance activities referred to in this unit standard are those normally carried out on an aircraft in a hangar.
- 5 The scope of the system that this standard relates to is described in ATA iSpec 2200, chapter 29.

Outcomes and performance criteria

Outcome 1

Prepare to maintain aircraft hydraulic 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 – depressurise systems, 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 hydraulic systems.

Performance criteria

- 2.1 Serviceability is determined.
- Range inspect, assess, test.
- 2.2 Defects are reported and documented.

Outcome 3

Restore airworthiness of hydraulic 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.
- 3.4 System is tested to verify serviceability.
- 3.5 Inspections are obtained.

Outcome 4

Complete finishing activities related to maintaining hydraulic 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.

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| 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 |

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