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| <b>Title</b> | <b>Demonstrate knowledge of maintenance practices for aeronautical engineering (EASA 147 Maintenance)</b> |                |           |
| <b>Level</b> | <b>5</b>  | <b>Credits</b> | <b>50</b> |

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| <b>Purpose</b> | <p>This knowledge-based unit standard is one of a series intended for people under training to gain authorisation to certify, to European Aviation Safety Agency (EASA) standards, the release to service of aircraft or aeronautical components following maintenance or repair.</p> <p>People credited with this unit standard are able to demonstrate knowledge of maintenance practices for aeronautical engineering (EASA 147 Maintenance).</p> |
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| <b>Classification</b> | Aeronautical Engineering > Aeronautical Maintenance Certification |
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| <b>Available grade</b> | Achieved |
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### Guidance Information

- 1 This unit standard is aligned with the European Aviation Safety Agency Examination Standard for *Module 7B Maintenance Practices* and will be evidenced by meeting these requirements. This can be located through the EASA website at <http://www.easa.europa.eu>.
- 2 *Knowledge* – will be in the context of aeronautical maintenance as defined by European Commission Regulation (EU) No 1321/2014 as follows: ‘A detailed knowledge of the theoretical and practical aspects of the subject and a capacity to combine and apply the separate elements of knowledge in a logical and comprehensive manner’; will include making judgements regarding the scope, processes, and quality of maintenance for release to service certification; and will be in accordance with industry texts as defined by the candidate’s workplace or enterprise.
- 3 *Industry texts* include but are not limited to –  
published aeronautical training manuals or text books;  
enterprise exposition;  
manufacturer publications;  
government and local body legislation;  
airworthiness or regulatory authority requirements.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of maintenance practices for aeronautical engineering (EASA 147 Maintenance).

### Performance criteria

- 1.1 Safety precautions for dealing with hazards and remedial actions in the event of fire or other accident in workshops and on aircraft are described.
- Range hazards may include but are not limited to – electricity, gases, oils, chemicals.
- 1.2 Workshop equipment is described and its applications are explained.
- Range may include but is not limited to – care and control of tools, avionic general test equipment, engineering drawings, diagrams and standards.
- 1.3 Workshop practices are described and their rationale are explained.
- Range may include but is not limited to – fits and clearances, Electrical Wiring Interconnection System, electrical cables and connectors, riveting, pipes and hoses, springs, bearings, transmissions, control cables, material handling, welding, brazing, soldering, bonding.
- 1.4 Working on aircraft is described and methods are explained.
- Range may include but is not limited to – aircraft weight and balance, aircraft handling and storage, techniques for disassembly, techniques for inspection, techniques for repair, techniques for assembly, abnormal events.
- 1.5 Maintenance procedures are described and are explained.
- Range may include but is not limited to – planning, procedures for modifications, procedures for stores, procedures for certification and release, interface with aircraft operation, maintenance inspection and quality assurance, additional maintenance procedures, control of life-limited components.

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| <b>Planned review date</b> | 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       | 16 August 2012    | 31 December 2020         |
| Review       | 2       | 28 September 2017 | 31 December 2024         |
| Review       | 3       | 27 October 2022   | 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](mailto:qualifications@ringahora.nz) if you wish to suggest changes to the content of this unit standard.