

<b>Title</b>	<b>Demonstrate knowledge of human factors for aeronautical engineering (EASA 147 Maintenance)</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>15</b>

<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 human factors 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 9 Human Factors* 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.

## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of human factors for aeronautical engineering (EASA 147 Maintenance).

### Performance criteria

1.1 Human performance is described and explained.

Range may include but is not limited to – significance of human factors in aviation, limitations of human performance, social psychology.

1.2 Factors affecting performance are described and explained.

Range may include but is not limited to – fitness and health, stress, time pressure, workload, fatigue, shift work, alcohol, drugs (e.g. medicated, abused), physical environment, tasks, communication.

1.3 Error and hazard management are described and explained.

Range may include but is not limited to – error models and theories, types of error, implications of errors, avoiding errors, managing errors, hazards in the workplace.

<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

<b>Consent and Moderation Requirements (CMR) reference</b>	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](mailto:qualifications@ringahora.nz) if you wish to suggest changes to the content of this unit standard.