

<b>Title</b>	<b>Manage aviation medicine relating to aircrew and passengers</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to: demonstrate knowledge of basic physics relating to human physiology; and demonstrate an understanding of, and manage, medical problems that commonly affect aircrew and passengers in-flight.
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<b>Classification</b>	Aviation > Flight Attendants
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<b>Available grade</b>	Achieved
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<b>Prerequisites</b>	Unit 6400, <i>Manage first aid in an emergency situation</i> , or demonstrate equivalent knowledge and skills.
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## Guidance Information

### 1 Definition

*Enterprise procedures* refer to the expected performance required by the enterprise in which credit for this unit standard is being sought. Such performance may be specified in enterprise procedures as indicated in manuals, guidelines, checklists, information bulletins, Civil Aviation Authority of New Zealand (CAA) documentation, and the International Air Transport Association (IATA) Medical Manual.

### 2 Standard industry texts referred to in, or applicable to, this unit standard include but are not limited to:

Rainford, D. and Gradwell, D., *Ernsting's Aviation and Space Medicine 5E* (5th ed.), (Florida, USA: CRC Press, 2016).

IATA, *Medical Manual* (12<sup>th</sup> ed.), (Montreal, Canada: International Air Transport Association, 2020).

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of basic physics relating to human physiology.

**Performance criteria**

- 1.1 Behaviours of gases in the human body during changes in atmospheric pressure are described in accordance with gas laws.
- Range may include but are not limited to – Boyle’s law, Charles’ law, Dalton’s law, Henry’s law.
- 1.2 Normal respiration and oxygen circulation in the human body is described.
- 1.3 Changes in atmospheric pressure, as they relate to the human body, are described in accordance with standard industry texts.
- 1.4 The effects of changes in pressure on gas containing compartments of the body are described in accordance with gas laws and standard industry texts.
- Range may include but is not limited to – gut, lungs, middle ear, sinuses, teeth.

**Outcome 2**

Demonstrate an understanding of medical problems that commonly affect aircrew and passengers in-flight.

**Performance criteria**

- 2.1 Common complaints are identified and treatment methods are described according to the symptoms presented and in accordance with enterprise procedures.
- 2.2 Common illnesses are identified and treatment methods are described according to the symptoms presented and in accordance with enterprise procedures.
- Range may include but is not limited to – hypoxia, hyperventilation, decompression sickness, dehydration.

**Outcome 3**

Manage medical problems that commonly affect aircrew and passengers in-flight.

**Performance criteria**

- 3.1 Medical problems are described in terms of their causes, signs, symptoms, effects, and prevention.
- Range hypoxia, hyperventilation, decompression sickness, dehydration.
- 3.2 Medical problems are diagnosed according to the symptoms presented and treated in accordance with enterprise procedures.

- 3.3 Primary assessment of a patient's condition is completed in accordance with first aid protocols, and communicated to a person able to take further action or provide further treatment advice.
- 3.4 The use of oxygen and the precautions to be taken are demonstrated in accordance with enterprise procedures.
- 3.5 Trained medical personnel on board the aircraft are identified and assisted, where appropriate, and remote medical assistance is utilised.
- 3.6 Health status of patient is communicated to ground medical assistance on arrival at destination.

<b>Replacement information</b>	This unit standard replaced unit standard 21838 and unit standard 21839.
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<b>Planned review date</b>	31 December 2024
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	12 December 2008	31 December 2017
Review	2	19 March 2015	N/A
Revision and Rollover	3	30 September 2021	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 ServiceIQ [qualifications@serviceiq.org.nz](mailto:qualifications@serviceiq.org.nz) if you wish to suggest changes to the content of this unit standard.