Title	Manage an aviation organisation's safety management system		
Level	5	Credits	15

Purpose	People credited with this unit standard are, in an aviation organisation, able to demonstrate knowledge of: the principles of an SMS; the elements of an SMS; the role of hazard identification and risk management in an SMS; and an SMS for an aviation organisation within a regulatory framework.

Classification	Aviation > Aviation - Core

Available grade	Achieved

Guidance Information

1   Resources may include but are not limited to:
International Civil Aviation Organization. 2018. Doc 9859, *Safety Management Manual*. 4th ed. ICAO, available at https://store.icao.int/en/safety-management-manual-doc-9859;
Standards Australia/Standards New Zealand. 2009. AS/NZS ISO 31000:2009 *Risk Management – principles and guidelines*. Sydney and Wellington: Standards Australia and Standards New Zealand, or subsequent amendments;
Civil Aviation Safety Authority. 2014. *Safety management system resource kit*. 2nd ed. CASA available at https://www.casa.gov.au/search-centre/safety-kits/resource-kit-develop-your-safety-management-system;
Reason, James. 1997. *Managing the Risks of Organizational Accidents.* Ashgate Publishing, Aldershot, available at https://www.routledge.com/Managing-the-Risks-of-Organizational-Accidents/Reason/p/book/9781840141054;
Heinrich, Herbert. 1931. *Industrial accident prevention: a scientific approach*. McGraw-Hill, New York, available at https://www.worldcat.org/title/industrial-accident-prevention-a-scientific-approach/oclc/3493629.

2   All references to the CAA refer specifically to the Civil Aviation Authority of New Zealand.

3   Industry standards are those set in place by the CAA.

4   Industry texts may include but are not limited to – ICAO Safety Management Manual, ICAO State Safety Plan, AS/NZS ISO 31000:2009, CAA Rules, CAA Advisory Circulars, operator exposition.

5   Definitions
       Aviation organisation refers to a public, private or community enterprise, association
       or group operating in the aviation environment.
       Knowledge refers to the knowledge, understanding, application and the management
       of the application of the subject matter.
       The term *SMS* refers to safety management system.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the principles of an SMS in an aviation organisation.

Performance criteria

1.1   The principles of a SMS are described in accordance with industry standards
         and texts.

         Range   may include but is not limited to – contrasted with broader Quality
                    and other Risk Management Systems present in industry;
                    understanding the implications (or application) of Heinrich's
                    Pyramid in preventing accidents and incidents.

1.2   The organisational nature of accidents and incidents are described in
         accordance with the James Reason models.

1.3   The components of safety management are described in accordance with
         industry standards and texts.

1.4   The purpose and outcomes of an SMS are described for an aviation
         environment.

1.5   An SMS is defined in accordance with industry standards and texts.

Outcome 2

Demonstrate knowledge of the elements of an SMS in an aviation organisation.

Performance criteria

2.1   The elements of an SMS are described in accordance with industry standards
         and texts.

2.2   The function of the elements of an SMS is described in terms of how it is
         integrated into each level and activity of the organisation.

2.3   The role of occurrence reporting by all individuals within an SMS is
         demonstrated by use of industry reporting systems in accordance with industry
         standards and texts.

Outcome 3

Demonstrate knowledge of the role of hazard identification and risk management in an SMS in an aviation organisation.

Performance criteria

3.1   The difference between a hazard and a safety risk is described in accordance with industry standards and texts.

3.2   The use of hazard identification and analysis, and documentation of hazards are described in accordance with industry standards and texts.

3.3   A hazard management process is described and documented in accordance with industry standards and texts.

3.4   The fundamentals of managing safety risk are described in terms of probability, severity, risk tolerability, and mitigation in accordance with industry standards and texts.

3.5   The application of the risk management process is described in accordance with industry standards and texts.

3.6   The use of occurrence reporting, and the importance of a reporting culture to aid hazard identification and risk management, are described in accordance with industry standards and texts.

Outcome 4

Demonstrate knowledge of an SMS in an aviation organisation within a regulatory framework.

Performance criteria

4.1   The regulatory requirements or guidance material of jurisdictions as applicable to an SMS are described in accordance with industry standards and texts.

4.2   The elements of an SMS are mapped to the regulatory compliance requirements or guidance material in accordance with industry standards and texts.

4.3   The responsibility of an organisation in terms of addressing safety regulatory requirements is described and applied to the activities of the aviation organisation in accordance with industry standards and texts.

4.4   Industry standards and texts are explained in terms of their role in the regulatory framework.

Planned review date	31 December 2027

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	15 April 2011	31 December 2024
Rollover	2	26 April 2018	31 December 2024
Review	3	29 September 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 if you wish to suggest changes to the content of this unit
standard.