

Title	Provide aeronautical engineering technical information and instructions		
Level	6	Credits	75

Purpose	<p>This unit standard is intended for people providing technical services support for aircraft operating and maintenance activities.</p> <p>People credited with this unit standard are able to: provide aeronautical engineering technical information and/or instructions to users; carry out preliminary assessments for technical projects; carry out technical project development; gain final approvals; and produce final documentation.</p>
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Classification	Aeronautical Engineering > Aeronautical Engineering Technical Support
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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 and requirements.
- 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 The information and instructions produced are to meet enterprise and customer requirements and include documentation such as – modification bulletins, service bulletins, publication changes, drawings, airworthiness authority concessions, technical reports, technical specification changes, repair schemes, changes to a maintenance programme, maintenance highlights, load control and/or weight and balance changes, despatch deviation procedures, operating-manual changes.

Outcomes and performance criteria

Outcome 1

Provide aeronautical engineering technical information and/or instructions to users.

Performance criteria

- 1.1 User's requirements are established in terms of type of information and/or instructions required, and their application.
- 1.2 Information and/or instructions are accessed from approved sources.
- 1.3 Information and/or instructions meet user's requirements.
- 1.4 Information and/or instructions provided to user are clear, concise, accurate, unambiguous, and timely.
- 1.5 Information and/or instructions are communicated to user.
- 1.6 Information and/or instructions provided are documented.

Outcome 2

Carry out preliminary assessments for technical projects.

Performance criteria

- 2.1 Affected parties are identified and communicated with, enabling data to be collected.

Range production, planning, management, supply, quality control, quality assurance, manufacturer, airworthiness authority, vendor, production and/or maintenance staff, customer, reliability review.
- 2.2 Scope of technical project is defined in terms of work and customer requirements.
- 2.3 Data collected is sufficient.
- 2.4 Decision is made whether to proceed with detailed project analysis.

Range resource requirements, costs.
- 2.5 Airworthiness authority requirements applicable to the project are identified.

Range local and overseas regulatory bodies.
- 2.6 Practicality of completing the project is assessed in terms of available resources, customer's needs, and regulatory requirements.
- 2.7 Approval is gained to proceed with a detailed analysis of project.

Range customer, management.

Outcome 3

Carry out technical project development.

Performance criteria

- 3.1 Project outcome is defined in accordance with customer requirements.
- Range may include – modification, special inspection, repair, publication amendment, report, technical specification change, maintenance programme change, change to load control and/or weight and balance.
- 3.2 The effect of proposed maintenance on aircraft and/or equipment is determined.
- Range weight and balance, performance, operation, structure, passenger and/or crew comfort.
- 3.3 Project design is justified and substantiated by analysis.
- 3.4 Trials and/or prototypes are produced and/or tested to substantiate the project in terms of form, fit, function, and viability.
- 3.5 The project's resource requirements are determined.
- Range human resources, materials, equipment, tooling, facilities, finance.
- 3.6 Project draft documents are produced.
- Range may include but is not limited to – modification leaflet, service bulletin, drawings, technical instruction, technical report, technical specification changes, repair scheme, maintenance programme change, maintenance highlight, change to load control and/or weight and balance documents, despatch deviation procedures, maintenance and procedure publication amendments.

Outcome 4

Gain final approvals.

Performance criteria

- 4.1 Final approvals are obtained for technical content.
- 4.2 Final approvals are obtained for project implementation.

Outcome 5

Produce final documentation.

Range may include but is not limited to – modification leaflet, service bulletin, drawings, technical instruction, technical report, technical specification changes, repair scheme, maintenance programme change, maintenance highlight, change to load control and/or weight and balance documents, despatch deviation procedures, maintenance and procedure publication amendments.

Performance criteria

- 5.1 Final documents are published.
- 5.2 Final documents are distributed and filed.

Planned review date	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	23 July 1997	31 December 2016
Revision	2	8 May 2001	31 December 2016
Review	3	19 May 2006	31 December 2016
Review	4	24 October 2014	31 December 2021
Review	5	26 March 2020	N/A

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 ServiceIQ qualifications@serviceiq.org.nz if you wish to suggest changes to the content of this unit standard.