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

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| **Purpose** | This unit standard is intended for people providing technical services support for aircraft operating and maintenance activities.<br><br>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. |

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| **Classification** | Aeronautical Engineering > Aeronautical Engineering Technical Support |

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| **Available grade** | Achieved |

**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.

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| **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 | 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 |
| Rollover and Revision | 6 | 26 April 2024 | N/A |

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| **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.