

Title	Visually inspect aerospace avionic printed circuit boards		
Level	3	Credits	15

Purpose	People credited with this unit standard are able to visually inspect aerospace avionics printed circuit boards.
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Classification	Aeronautical Engineering > Aerospace Engineering
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Available grade	Achieved
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Guidance Information

1 Definitions

Avionics products – what the enterprise manufactures. These could be complete products intended for end users; or sub-assemblies, printed circuit boards, or components, for use in other manufacturing processes.

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.

Visually inspect – a visual inspection of products produced or assembled by other workers, at strategic points in the production process. This may require use of optical magnifiers in some situations.

2 References

- Health and Safety at Work Act 2015;
- IPC-A-610H, *Acceptability of Electronic Assemblies*, January 2020, published by IPC – Association Connecting Electronics Industries. available at https://webstore.ansi.org/?_ga=2.101822977.1417427167.1676497801-1251871341.1676497800.

3 The following apply to all outcomes of this unit standard:

- a all activities are to be completed and reported in accordance with enterprise procedures;
- b all work practices must meet worksite's documented quality management requirements;
- c all activities must comply with policies, procedures and requirements of the enterprises involved; and any relevant legislative and/or regulatory requirements, which include, but are not limited to, the Health and Safety at Work Act 2015.

Outcomes and performance criteria

Outcome 1

Visually inspect aerospace avionic printed circuit boards.

Performance criteria

- 1.1 Printed circuit board features are visually inspected.
- Range features may include but are not limited to – structure, fixture, interconnection, components, labelling, visual appearance.
- 1.2 Product quality is validated in checks in accordance with IPC-A-610H and/or enterprise standards.
- 1.3 Inspection and handling are carried out without affecting product integrity.
- 1.4 Defects and/or rework are processed.
- 1.5 Results of inspection are recorded.
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Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	30 March 2023	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 Ringa Hora Services Workforce Development Council qualifications@ringahora.nz if you wish to suggest changes to the content of this unit standard.