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.

Classification	Aeronautical Engineering > Aerospace Engineering

Available grade	Achieved

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.

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	30 March 2023	N/A
Rollover and Revision	2	27 June 2024	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.