1. Title	Avionic printed circuit boards repair
2. Code	EMAMAV462A
3. Range	Avionic printed circuit boards repair activity is usually carried out in a specialist bay or workshop on components that have been removed from the aircraft.
4. Level	4
5. Credit	9
6. Competency	Performance Requirement
	6.1 Working • Understand the working principles for the avionic printed circuit boards.
	 Able to review the maintenance documents and procedures to decide on maintenance task,e.g. confirm fault, repair, modify Able to prepare the work area, obtain and check the resources for serviceability or status in accordance with the procedures,e.g. publications, materials, tools, equipment, safety equipment, environmental conditions established. Able to confirm the component identification is matched with the documentation. Able to prepare the component for repair in accordance with the procedures,e.g. clean, inspect, assess economics of carrying out repair. Able to determine and record the next task in accordance with the procedures,e.g. locate defects, repair, test, adjust, complete the task.

- ♦ Able locate the defects to using troubleshooting techniques and inspection procedures appropriate to the defects indications in with accordance the procedures.
- ◆ Able to inspect the circuit board for damage in accordance with the procedures, e.g. burns, track damage, pad damage
- ◆ Able to report and record the defects in accordance with the procedures.
- ◆ Able to prevent electro-static damage in accordance with the procedures.
- ◆ Able to remove and apply the conformal coatings in accordance with the procedures.
- ◆ Able to procure the replacement parts and verify their authenticity and serviceability in accordance with the procedures, e.g. identify, inspect.
- ◆ Able to replace parts in accordance with the procedures.
- ◆ Able to test the repaired printed circuit board in accordance with the procedures.
- 6.3 Professional approach
- ◆ Able to understand the legislative requirements, aviation authority requirements, manufacturers' publications and the maintenance organizations' approved maintenance practices and requirements in carrying out the task.
- ◆ Able to complete the task within the stipulated duration.
- ♦ Able to prepare the component for use, storage or transit in accordance with the procedures, e.g. locking, inhibiting, blanking, packing, shelf-life requirement.

	 ◆ Able to check the resources for serviceability and return them to service or storage in accordance with the procedures, e.g. tools, equipment, safety equipment, publications. ◆ Able to handle the unused parts and materials in accordance with the procedures, e.g. serviceable, unserviceable, surplus, waste, scrap, hazardous. ◆ Able to complete the documentation in accordance with the procedures, e.g. labels, work cards, release notes, log books, certification. ◆ Able to return the work area in a state which enables the next task to begin in accordance with the procedures.
7. Assessment Criteria	The integral outcome requirement of this UoC is: (i) Able to return the avionic printed circuit boards to a serviceable condition by checking for and reporting damage, repairing or replacing parts, testing and documenting the work.
8. Remarks	Ref: NZQA - 3999