1. Title	Avionic repair skills
2. Code	EMAMAV464A
3. Range	Avionic repair skills are usually applied in a specialist bay or workshop.
4. Level	4
5. Credit	9
6. Competency	Performance Requirement 6.1 Test semiconductor devices ♦ Able to identify the semiconductor devices and match circuit specifications. ♦ Able to establish the serviceability of semiconductor devices in accordance with standard industry practices,e.g. diodes, transistors, using ohmmeter to detect open and short circuits. ♦ Able to identify the semiconductor device terminals and match information contained in circuit specifications 6.2 Repair avionic printed wiring assemblies ♦ Able to remove and install the printed wiring components in accordance with standard industry practices. ♦ Able to solder the printed wiring components in accordance with standard industry practices,e.g. using large iron, soldering station, continuous vacuum extractor, rework and repair station. ♦ Able to rework and repair the printed circuit boards in accordance with standard industry practices,e.g. single-sided, double-sided, multilayer, flexible.

	6.3 Test avionic components	♦ Able to determine the testing task in accordance with standard industry practices,e.g. avionic equipment identified, test procedures determined. ♦ Able to select the test equipment in terms of the task requirements,e.g. analogue and digital multimeter, logic probe, oscilloscope, frequency counter, signal generator, capacitance meter. ♦ Able to operate the test equipment in accordance with manufacturer's instructions,e.g. analogue and digital multimeter, logic probe, oscilloscope, frequency counter, signal generator, capacitance meter. ♦ Able to test the avionic components for serviceability in accordance with manufacturer's specifications.
	6.4 Apply avionic repair procedures	♦ Able to demonstrate the repair procedures meet standard industry practices,e.g. disassembly, inspection, repair, assembly, calibration.
7. Assessment Criteria	The integral outcome requirement of this UoC are: (i) Able to test the semiconductor devices. (ii) Able to repair the avionic printed wiring assemblies. (iii) Able to test the avionic components. (iv) Able to apply the avionic repair procedures.	
8. Remarks	Ref: NZQA - 7246	