

1. Title	Aircraft LORAN navigation system components repair	
2. Code	EMAMAV434A	
3. Range	Aircraft LORAN navigation system components repair activity is usually carried out in a specialist bay or workshop on components that have been removed from the aircraft,e.g. receiver processor units, control display units, antennas	
4. Level	4	
5. Credit	9	
6. Competency	<p style="text-align: center;"><u>Performance Requirement</u></p> <p>6.1 Working principles</p> <ul style="list-style-type: none"> ◆ Understand the working principles for the aircraft LORAN navigation system. <p>6.2 Methods and procedures</p> <ul style="list-style-type: none"> ◆ 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 prepare the component for repair in accordance with the procedures,e.g. clean, inspect, assess economics of carrying out repair. ◆ Able to confirm the component identification is matched with the documentation. ◆ Able to determine and record the next task in accordance with the procedures,e.g. locate defects, repair, test, adjust, complete the task. 	

- | | |
|--|--|
| | <ul style="list-style-type: none">◆ Able to locate the defects using troubleshooting techniques and inspection procedures appropriate to the defects indications in accordance with the procedures.◆ Able to report and record the defects in accordance with the procedures.◆ Able to disassemble the component in accordance with the procedures, e.g. clean, label, preserve, segregate, store.◆ Able to determine and record the rectification action 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 rectify the defects in accordance with the procedures, e.g. repair, replace, modify, adjust.◆ Able to assemble the component in accordance with the procedures.◆ Able to perform inspections in accordance with the procedures, e.g. independent, progressive.◆ Able to prepare the component for test in accordance with the procedures.◆ Able to test and adjust the component in accordance with the procedures, e.g. troubleshoot, functionally test, calibrate, adjust, document adjustments and performance. |
|--|--|

	<p data-bbox="371 414 638 504">6.3 Professional approach</p> <ul data-bbox="734 235 1484 1780" style="list-style-type: none"><li data-bbox="734 235 1484 380">◆ Able to perform inspections after test in accordance with the procedures, e.g. independent, progressive.<li data-bbox="734 414 1484 716">◆ 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.<li data-bbox="734 728 1484 929">◆ Able to prepare the component for use, storage or transit in accordance with the procedures, e.g. locking, blanking, packing, shelf-life requirement.<li data-bbox="734 940 1484 1041">◆ Able to complete the task within the stipulated duration.<li data-bbox="734 1052 1484 1254">◆ 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.<li data-bbox="734 1265 1484 1467">◆ Able to handle the unused parts and materials in accordance with the procedures, e.g. serviceable, unserviceable, surplus, waste, scrap, hazardous.<li data-bbox="734 1478 1484 1624">◆ Able to complete the documentation in accordance with the procedures, e.g. labels, work cards, release notes.<li data-bbox="734 1635 1484 1780">◆ 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 aircraft LORAN navigation system components to a serviceable condition by disassembling, checking for and reporting damage, repairing, modifying or replacing parts, reassembling, testing and documenting the work.
8. Remarks	Ref: NZQA - 22930