

1. Title	Aircraft hydraulic system components repair and/or overhaul	
2. Code	EMAMWS429A	
3. Range	Repair and/or overhaul activity is usually carried out in a specialist bay or workshop. Aircraft hydraulic system components are from the reservoir to actuators. Including: pumps, actuators, valves, filters, accumulators, reservoirs, hydro-mechanical anti-skid components.	
4. Level	4	
5. Credit	9	
6. Competency	<u>Performance Requirement</u>	
	6.1 Working principles	<ul style="list-style-type: none"> ◆ Understand the construction and working principles for the hydraulic systems in aircraft, including : <ul style="list-style-type: none"> • knowledge of handling of hydraulic fluids • indication and warning systems • interface with other systems
	6.2 Method and procedures	<ul style="list-style-type: none"> ◆ Able to review the documents and procedures,e.g. confirm fault, repair, overhaul, modify. ◆ Able to locate defects using troubleshooting techniques appropriate to the defects indications in accordance with the procedures. ◆ Able to confirm the component identity with documentation. ◆ Able to make preparation for the work area and 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.

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| | <ul style="list-style-type: none">◆ Able to prepare the component for repair and/or overhaul in accordance with the procedures,e.g. clean, inspect, assess economics of carrying out repair and/or overhaul.◆ Able to determine and record the next task in accordance with the procedures,e.g. locate defects, repair and/or overhaul, test, adjust, complete the task.◆ Able to report and record defects found during troubleshooting in accordance with the procedures.◆ Able to disassemble the component in accordance with the procedures,e.g. clean, label, preserve, segregate, store.◆ Able to report and record the defects found during disassembly in accordance with the procedures,e.g. inspect, use standards, specifications, precision measuring equipment.◆ Able to determine and record the rectification action in accordance with the procedures.◆ Able to procure the spare 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 and/or overhaul, replace, modify, adjust.◆ Able to assemble the component in accordance with the procedures. |
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6.3 Professional approach

- ◆ Able to perform inspections in accordance with the procedures.
- ◆ 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.
- ◆ Able to perform inspections after the test in accordance with the procedures.
- ◆ 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
- ◆ Able to check the resources for serviceability and returned to service or storage in accordance with the procedures, e.g. tools, equipment, safety equipment, publications.
- ◆ Able to handle the leftover parts and materials in accordance with the procedures, e.g. serviceable, unserviceable, surplus, waste, scrap, hazardous
- ◆ Able to leave the work area in a state which enables the next task to begin in accordance with the procedures.

	<p>◆ Able to complete the documentation in accordance with the procedures, e.g. labels, work cards, release notes, log books, shelf-life requirement, certification.</p>
7. Assessment Criteria	<p>The integral outcome requirement of this UoC are:</p> <ul style="list-style-type: none"> (i) Able to make preparation for the repair and/or overhaul of aircraft hydraulic system components. (ii) Able to locate the defects. (iii) Able to repair and/or overhaul the hydraulic system components. (iv) Able to test and adjust the hydraulic system components. (v) Able to complete all the requirements associated with the repair and/or overhaul tasks.
8. Remarks	<p>(Ref: HKAR-66 Module 11.11 & 12.12)</p> <p>The Credit in this UoC is on the assumption of learner already possessed foundation knowledge in the manipulation of common tools.</p> <p>Ref: NZQA - 3933</p>