

1. Title	Aircraft air conditioning and pressurization systems maintenance
2. Code	EMAMBG401A
3. Range	Repair of air conditioning system is usually carried out on the aircraft in a hangar or workshop during the aircraft non-flight time.
4. Level	4
5. Credit	9
6. Competency	<p style="text-align: center;"><u>Performance Requirement</u></p> <p>6.1 Knowledge</p> <ul style="list-style-type: none"> <li>◆ Understand the construction and working principles for the air conditioning system in aircraft, including : <ul style="list-style-type: none"> <li>• cabin pressurization in aeroplanes</li> <li>• protection and warning devices of the system</li> </ul> </li> </ul> <p>6.2 Method and procedures</p> <ul style="list-style-type: none"> <li>◆ Able to review the maintenance documents and procedures to decide on maintenance task.</li> <li>◆ Able to obtain resources and check for serviceability or status in accordance with the procedures, e.g. publications, tools, equipment, safety equipment, materials.</li> <li>◆ Able to confirm the system to be maintained is matched with the aircraft registration and documentation.</li> <li>◆ Able to prepare the aircraft and systems for the application of power and for system operation in accordance with the procedures, e.g. cockpit controls match component positions, clearances obtained, isolation tags, warning signs.</li> </ul>

	<p data-bbox="371 1317 639 1406">6.3 Professional approach</p> <ul style="list-style-type: none"> <li data-bbox="735 241 1481 376">◆ Able to prepare the ground and/or support equipment for system operation in accordance with the procedures.</li> <li data-bbox="735 398 1481 533">◆ Able to determine the serviceability in accordance with the procedures,e.g. inspect, troubleshoot, assess, test.</li> <li data-bbox="735 555 1481 757">◆ Able to procure the replacement parts and verify their authenticity and serviceability in accordance with the procedures,e.g. identify, inspect.</li> <li data-bbox="735 779 1481 913">◆ Able to rectify the defects in accordance with the procedures,e.g. repair, replace, modify, adjust, calibrate, lubricate.</li> <li data-bbox="735 936 1481 1070">◆ Able to test the system to verify their serviceability in accordance with the procedures.</li> <li data-bbox="735 1093 1481 1182">◆ Able to perform inspections in accordance with the procedures.</li> <li data-bbox="735 1205 1481 1294">◆ Able to report and record defects in accordance with the procedures.</li> <li data-bbox="735 1317 1481 1630">◆ 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> <li data-bbox="735 1653 1481 1742">◆ Able to complete the task within the stipulated duration.</li> <li data-bbox="735 1765 1481 1841">◆ Able to follow instruction manuals to repair and maintain the system.</li> </ul>
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	<ul style="list-style-type: none"> <li>◆ Able to complete the task in the work area in accordance with the procedures, e.g. tool control, cleanliness, tidiness, return of publications, return of system/aircraft to normal, preparation for next activity.</li> <li>◆ Able to check the resources for serviceability and returned to service or storage in accordance with the procedures, e.g. equipment, safety equipment.</li> <li>◆ Able to unused leftover parts and materials in accordance with the procedures, e.g. serviceable, unserviceable, surplus, waste, scrap, hazardous.</li> <li>◆ Able to complete the documentation in accordance with the procedures.</li> </ul>
7. Assessment Criteria	<p>The integral outcome requirement of this UoC are:</p> <ul style="list-style-type: none"> <li>(i) Able to make preparation for the maintenance of aircraft air conditioning and pressurization systems.</li> <li>(ii) Able to locate the defects in air conditioning and pressurization systems.</li> <li>(iii) Able to restore the system airworthiness.</li> <li>(iv) Able to complete all the requirements associated with the maintenance tasks.</li> </ul>
8. Remarks	<p>(Ref: HKAR-66 Module 11.4 &amp; 12.6)</p> <p>The Credit in this UoC is on the assumption of the person already possessed foundation knowledge in the manipulation of common tools.</p> <p>Ref: NZQA - 3918</p>