

1. Title	Aircraft landing gear systems maintenance
2. Code	EMAMBG404A
3. Range	The maintenance work is carried out in an aircraft hangar or workshop during the aircraft non-flight time. Repair of landing gear and the related systems in aircraft, including the oleos, shock struts, locking mechanisms, extensions of retraction mechanism, axles, brake units, tyres, wheels.
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 landing gear in aircraft, including : <ul style="list-style-type: none"> <li>• indication and warning systems</li> <li>• wheels, brakes and tyres</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. procedures, 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, isolation tags, warning signs.</li> </ul>

	<ul style="list-style-type: none"><li>◆ Able to prepare the ground and/or support equipment for system operation, in accordance with the procedures.</li><li>◆ Able to determine the serviceability in accordance with the procedures, e.g. inspect, troubleshoot, assess, test.</li><li>◆ Able to report and record defects in accordance with the procedures.</li><li>◆ Able to rectify the defects by the approved method in accordance with the procedures, e.g. repair, replace, modify, adjust, rig, lubricate.</li><li>◆ Able to procure the replacement parts and verify their authenticity and serviceability in accordance with the procedures, e.g. identify, inspect.</li><li>◆ Able to test the system to verify their serviceability in accordance with the procedures.</li><li>◆ Able to perform inspections in accordance with the procedures</li><li>◆ 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>◆ Able to complete the task within the stipulated duration.</li><li>◆ Able to follow instruction manuals to repair and maintain the system.</li></ul>
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6.3 Professional approach

	<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 return to service or storage in accordance with the procedures, e.g. tools, equipment, safety equipment.</li> <li>◆ Able to handle unused 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 requirements of this UoC are:</p> <ul style="list-style-type: none"> <li>(i) Able to make preparation for the maintenance of landing gear systems.</li> <li>(ii) Able to locate the defects in landing gear 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 11.13 &amp; 12.14)</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 - 3921</p>