

1. Title	Aircraft fire protection and detection systems maintenance
2. Code	EMAMBX414A
3. Range	Repair or servicing of fire protection systems in aircraft in an aircraft hangar or workshop during the aircraft grounded time.
4. Level	4
5. Credit	4
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 fire protection systems in aircraft, including : <ul style="list-style-type: none"> <li>• fire and smoke detection and warning systems</li> <li>• fire extinguishing systems</li> </ul> </li> </ul> <p>6.2 Methods 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 the resources and check it 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 system operation in accordance with the procedures, e.g. cockpit controls match component positions, clearances, isolation tags, warning signs.</li> <li>◆ Able to prepare the ground and/or support equipment for system operation in accordance with the procedures.</li> </ul>

	<ul style="list-style-type: none"> <li>◆ Able to determine the serviceability in accordance with the procedures, e.g. inspect, troubleshoot, assess, and test.</li> <li>◆ Able to report and record the defects in accordance with the procedures.</li> <li>◆ Able to rectify the defects by the approved method in accordance with the procedures.</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 rectify the defects in accordance with the procedures, e.g. repair, replace, modify, adjust, calibrate, lubricate.</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, e.g. independent, duplicate, progressive</li> </ul>
6.3 Professional approach	<ul style="list-style-type: none"> <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 system maintenance within the stipulated duration.</li> <li>◆ Able to follow instruction manuals to repair and maintain the systems e.g. replacement of fire bottles.</li> </ul>

	<ul style="list-style-type: none"> <li>◆ Able to leave the aircraft, system and work area in a state which enables the next task to begin in accordance with the procedures.</li> <li>◆ Able to check the resources for serviceability and return it to service or storage in accordance with the procedures,e.g. tools, equipment, safety equipment, publications.</li> <li>◆ Able to handle the 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,e.g. labels, work cards, release notes, log books, certification</li> </ul>
7. Assessment Criteria	<p>The integral outcome requirement of this UoC is:</p> <p>(i) Able to maintain the aircraft fire protection and detection systems by carrying out inspections, troubleshooting, repairs, modifications, component changes, and testing.</p>
8. Remarks	<p>(Ref: HKAR-66 Module 11.8 &amp; 12.10)</p> <p>The Credit in this UoC is on the assumption of the person already possessed basic knowledge in the manipulation of common tools.</p> <p>Ref: NZQA - 22521</p>