

1. Title	Aircraft weather radar systems maintenance
2. Code	EMAMBX418A
3. Range	Aircraft inertial navigation systems maintenance is usually carried out on the aircraft in the hangar. Range weather radar and/or microburst detection and/or windshear detection.
4. Level	4
5. Credit	4
6. Competency	<p style="text-align: center;"><u>Performance Requirement</u></p> <p>6.1 Working principles</p> <ul style="list-style-type: none"> <li>◆ Understand the working principles for the aircraft weather radar systems.</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 and check the resources for serviceability 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 ground and/or support equipment for systems operation in accordance with the procedures.</li> <li>◆ Able to prepare the 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> </ul>

	<ul style="list-style-type: none"> <li>◆ Able to determine the serviceability in accordance with the procedures, e.g. inspect, troubleshoot, assess, 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, e.g. repair, replace, modify, adjust, calibrate, 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 systems and 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> <p>6.3 Professional approach</p> <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 task within the stipulated duration.</li> <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> </ul>
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	<ul style="list-style-type: none"> <li>◆ 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.</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 weather radar systems by carrying out inspections, troubleshooting, repairs, modifications, component changes, and testing.</p>
8. Remarks	Ref: NZQA - 22525