

1. Title	Aircraft fixed pitch and/or ground adjustable propellers maintenance
2. Code	EMAMBA401A
3. Range	The maintenance activities referred to in this unit standard are those normally carried out on the aircraft in a hangar.
4. Level	4
5. Credit	5
6. Competency	<p style="text-align: center;"><u>Performance Requirement</u></p> <p>6.1 Preparation</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 component to be maintained is matched with the aircraft registration and documentation.</li> <li>◆ Able to prepare the aircraft and component 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 aircraft propellers maintenance activities in accordance with the procedures.</li> </ul>

	<p>6.2 Methods and procedures</p>	<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 locate the defects using troubleshooting techniques appropriate to the defects indications in accordance with the procedures, e.g. vibration, performance, over speed, damage.</li><li>◆ Able to report and record the defects in accordance with the procedures.</li><li>◆ Able to determine the method of rectifying defects in accordance with the procedures.</li><li>◆ Able to procure the replacement propeller and/or parts and verify their authenticity and serviceability in accordance with the procedures, e.g. identify, inspect.</li><li>◆ Able to rectify the propeller defects in accordance with the procedures, e.g. repair, replace, modify, adjust, dynamically balance.</li><li>◆ Able to test the propellers to verify their serviceability in accordance with the procedures.</li><li>◆ Able to perform the inspections in accordance with the procedures.</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></ul>

	<ul style="list-style-type: none"> <li>◆ Able to complete the task within the stipulated duration.</li> <li>◆ Able to complete the task in the work area in accordance with the procedures, e.g. tool control, cleanliness, tidiness, return of publications, systems and aircraft left for next activity.</li> <li>◆ Able to check the resources for serviceability and return them to service or storage in accordance with the procedures, e.g. tools, equipment, safety equipment.</li> <li>◆ Able to complete the documentation in accordance with the procedures.</li> <li>◆ Able to handle the unused parts and materials in accordance with the procedures, e.g. serviceable, unserviceable, surplus, waste, scrap, hazardous, replaced propeller.</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 aircraft fixed pitch and/or ground adjustable propellers.</li> <li>(ii) Able to locate defects in aircraft propellers.</li> <li>(iii) Able to restore the airworthiness of aircraft propellers.</li> <li>(iv) Able to complete all the requirements associated with the task.</li> <li>(v) Able to fit and remove, and disassemble propellers for shipment</li> </ul>
8. Remarks	Ref: NZQA - 23159