

1. Title	Aircraft piston powerplants installation, operation and remove from a test bed
2. Code	EMAMBG426A
3. Range	The installation, operation and removal of aircraft powerplants from a test bed are usually carried out in an aircraft hangar. All powerplant run tasks are to be carried out under the control of an authorized powerplant runner in accordance with the procedures.
4. Level	4
5. Credit	8
6. Competency	<p style="text-align: center;"><u>Performance Requirement</u></p> <p>6.1 Knowledge ♦ Understand the construction and configuration of powerplants of piston engines</p> <p>6.2 Methods and procedures ♦ Able to review the maintenance documents and procedures to decide on maintenance task.</p> <p style="padding-left: 150px;">♦ Able to confirm the powerplants identity with documentation by comparing serial and part numbers.</p> <p style="padding-left: 150px;">♦ Able to make preparation for the work area and obtain and check the resources in accordance with the procedures, e.g. publications, materials, tools, test equipment, safety equipment, environmental conditions determined.</p> <p style="padding-left: 150px;">♦ Able to set up the test equipment is set up in accordance with the procedures.</p> <p style="padding-left: 150px;">♦ Able to install the powerplant on a test bed in accordance with the procedures.</p> <p style="padding-left: 150px;">♦ Able to carry out powerplant run under control of authorized powerplant runner.</p>

	<ul style="list-style-type: none"> ◆ Able to make adjustments as directed by authorized personnel and in accordance with the procedures. ◆ Able to carry out maintenance as directed by authorized personnel and in accordance with the procedures. ◆ Able to perform inspections in accordance with the procedures. <p>6.3 Professional approach</p> <ul style="list-style-type: none"> ◆ 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. ◆ Able to complete the task within the stipulated duration. ◆ Able to remove the powerplant from test bed in accordance with the procedures. ◆ Able to perform inspections in accordance with the procedures. ◆ Able to prepare the powerplant for use, storage or transit in accordance with the procedures,e.g. lock, inhibit, blank, remove from test bed, prepare for transit. ◆ Able to complete the task in the work area in accordance with the procedures,e.g. tool control, cleanliness, tidiness, return of publications, preparation for next activity.
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	<ul style="list-style-type: none"> ◆ 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. ◆ Able to handle the unused parts and materials in accordance with the procedures, e.g. serviceable, unserviceable, surplus, waste, scrap, hazardous. ◆ Able to complete the documentation in accordance with the procedures
7. Assessment Criteria	<p>The integral outcome requirement of this UoC are:</p> <ul style="list-style-type: none"> (i) Able to make preparation for the operation of an aircraft powerplants on a test bed. (ii) Able to install the aircraft powerplants on a test bed, operate, make adjustments, and carry out maintenance as directed. (iii) Able to remove the aircraft powerplants from a test bed. (iv) Able to complete all the requirements associated with the testing task.
8. Remarks	<p>(Ref: HKAR-66 Module 7.5, 15.19 & 16.11)</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 - 23160</p>