

1. Title	Aircraft reciprocating powerplants test on a test bed
2. Code	EMAMWS456A
3. Range	The aircraft reciprocating powerplant testing is usually carried out in an aircraft hangar on a test bed.
4. Level	4
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirement</u></p> <p>6.1 Preparation</p> <ul style="list-style-type: none"> ◆ Able to review the maintenance documents and procedures to decide on maintenance task. ◆ Able to confirm the powerplant identity with documentation by comparing serial and part numbers. ◆ 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. ◆ Able to prepare the powerplant for testing in accordance with the procedures, e.g. clean, inspect, install on test bed. <p>6.2 Methods and procedures</p> <ul style="list-style-type: none"> ◆ Able to report and record the defects found during testing in accordance with the procedures, e.g. vibrations, out of limits performance parameters, leaks. ◆ Able to test and adjust the powerplant in accordance with the procedures, e.g. record data, evaluate data, determine adjustments, troubleshoot, functionally test, calibrate, adjust, document adjustments and performance.

	<ul style="list-style-type: none"> ◆ Able to rectify the defects in accordance with the procedures, e.g. vibrations, out of limits performance parameters, leaks. ◆ Able to perform inspections in accordance with the procedures. ◆ Able to take action for abnormal and emergency occurrences 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 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. ◆ 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.
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	<ul style="list-style-type: none"> ◆ 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 testing of aircraft reciprocating powerplants. (ii) Able to test aircraft reciprocating powerplants on a test bed. (iii) Able to complete all the requirements associated with the testing task.
8. Remarks	Ref: NZQA - 20635