

1. Title	Capacitors installation and testing in electric circuits
2. Code	EMAMCM201A
3. Range	Installation and testing of capacitors in electric circuits are usually carried out in a specialist bay or workshop.
4. Level	2
5. Credit	3
6. Competency	<p style="text-align: center;"><u>Performance Requirement</u></p> <p>6.1 Operation and working principles</p> <ul style="list-style-type: none"> ◆ Understand the operation and working principles of capacitors, including: <ul style="list-style-type: none"> • factors affecting capacitance • capacitor types and construction • exponential charge and discharge <p>6.2 Testing methods</p> <ul style="list-style-type: none"> ◆ Able to use appropriate tools to test capacitors in accordance with the procedures, including: <ul style="list-style-type: none"> • the working condition • appropriate installation i.e. desired capacitance, and at correct working voltage etc. <p>6.3 Professional approach</p> <ul style="list-style-type: none"> ◆ Able to follow the specifications to install capacitors in electric circuits in accordance with the procedures. ◆ 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 perform inspection on capacitors in accordance with the procedures.

7. Assessment Criteria	<p>The integral outcome requirements of this UoC are:</p> <ul style="list-style-type: none"> (i) Able to install and test the capacitors in electric circuits according to the required specifications and restore the normal function of the electric circuits. (ii) Able to clearly describe the installation and testing procedures, and their technical requirements. (iii) Able to draft the reports for the installation and testing work.
8. Remarks	<p>(Ref: HKAR-66 Module 3.9)</p> <p>The Credit in this UoC is on the assumption of the person already possessed basic knowledge in electric circuits.</p>