

1. Title	Defective electronic/ digital/ avionic components troubleshooting and repair
2. Code	EMAMWS311A
3. Range	Component overhaul in workshop.
4. Level	3
5. Credit	9
6. Competency	<p style="text-align: center;"><u>Performance Requirement</u></p> <p>6.1 Knowledge      ♦ Understand the construction and working principles for electronic / digital / avionic components, including:</p> <ul style="list-style-type: none"> <li>• operating concepts such as breakdown voltage, forward /reverse biased conditions of diodes</li> <li>• inter-conversion of binary, octal and hexadecimal numbering systems</li> <li>• avionic general test equipment</li> </ul> <p>6.2 Troubleshooting and repair methods      ♦ Use appropriate methods effectively to fix the defective components in accordance with the procedures</p> <p>6.3 Professional approach      ♦ Able to follow in-house procedures to label the component and return it to supplies store / service.</p> <p>♦ Able to complete the task within the stipulated duration.</p>
7. Assessment Criteria	<p>The integral outcome requirements of this UoC are:</p> <p>(i) Able to troubleshoot and fix the defective electronic/ digital/ avionic components,</p> <p>(ii) Able to restore the normal function of the components.</p> <p>(iii) Able to prepare reports for the repair works.</p>

8. Remarks	(Ref: HKAR-66 Module 4, 5, 7.4, 7.18, 11.5, 12.7, 13.3, 13.4 & 13.8) The Credit in this UoC is on the assumption of the person already possessed basic knowledge in electronics and instrumentation.
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