

1. Title	Wooden aeroplanes (Mechanics Repair and Maintenance)
2. Code	EMAMBA505A
3. Range	The knowledge is needed for a wide range of aeroplane repair and maintenance works, e.g. applicable to aircrafts, analysis, machineries, airworthiness, airframes, avionics, materials, tests, documentation, safety, health and tools etc.
4. Level	5
5. Credit	3
6. Competency	<p style="text-align: center;"><u>Performance Requirement</u></p> <p>6.1 Knowledge</p> <ul style="list-style-type: none"> <li>◆ Able to understand the wooden structures. <ul style="list-style-type: none"> <li>• Construction methods of wooden airframe structures.</li> <li>• Characteristics, properties and types of wood and glue used in aeroplanes.</li> <li>• Preservation and maintenance of wooden structure.</li> <li>• Types of defects in wood material and wooden structures.</li> <li>• The detection of defects in wooden structure.</li> <li>• Repair of wooden structure.</li> </ul> </li> <li>◆ Able to understand the aeroplane covering. <ul style="list-style-type: none"> <li>• Characteristics, properties and types of fabrics and fibreglass used in aeroplanes.</li> <li>• Types of defects in fabric and fibreglass.</li> <li>• Repair of fabric and fibreglass covering.</li> </ul> </li> </ul> <p>6.2 Theoretical and practical aspects</p> <ul style="list-style-type: none"> <li>◆ Able to apply the following knowledge in the aircraft maintenance. <ul style="list-style-type: none"> <li>• Wooden structures.</li> <li>• Aeroplane covering</li> </ul> </li> </ul>

	<p>6.3 Professional approach</p> <ul style="list-style-type: none"> <li>◆ Able to understand the principal elements of the subjects.</li> <li>◆ Able to understand the general knowledge of the theoretical and practical aspects of the following subjects. <ul style="list-style-type: none"> <li>• Wooden structures.</li> <li>• Aeroplane covering</li> </ul> </li> <li>◆ Able to apply the knowledge in the aircraft maintenance task.</li> </ul>
7. Assessment Criteria	<p>The integral outcomes requirement of this UoC are:</p> <ul style="list-style-type: none"> <li>(i) Able to understand the theoretical fundamentals of the subjects.</li> <li>(ii) Able to give a general description of the subjects using, as appropriate, typical examples.</li> <li>(iii) Able to use mathematical formulae in conjunction with physical laws describing the subjects.</li> <li>(iv) Able to read and understand sketches, drawings and schematics describing the subjects.</li> <li>(v) Able to apply the knowledge relating to mechanics repair and maintenance in a practical manner using detailed procedures.</li> </ul>
8. Remarks	Ref: HKAR-66 Module 19: Wooden aeroplanes