

1. Title	Coating systems application on aircraft and aeronautical equipment
2. Code	EMAMWS440A
3. Range	Apply coating systems to aircraft and aeronautical equipment is usually carried out in the hangar. Any of the following coating systems and drying or curing methods may be used: solvent evaporation, oxidation, polymerization.
4. Level	4
5. Credit	9
6. Competency	<p style="text-align: center;"><u>Performance Requirement</u></p> <p>6.1 Knowledge ♦ Understand the aircraft coatings methods and procedures.</p> <p>6.2 Application ♦ Able to review the maintenance documents and procedures to decide on maintenance task.</p> <p> ♦ Able to obtain and check the resources for serviceability or status in accordance with the procedures, e.g. tools, materials, equipment, safety equipment, clothing, publications.</p> <p> ♦ Able to confirm the aircraft, aircraft components or aeronautical equipment identification is matched with the documentation.</p> <p> ♦ Able to posit the ground equipment in accordance with the procedures.</p> <p> ♦ Able to establish the working environment in accordance with the procedures, e.g. temperature, lighting, ventilation, hazard warning signs.</p>

	<ul style="list-style-type: none"> ◆ Able to make preparation for the aircraft, aircraft components or aeronautical equipment in accordance with the procedures,e.g. degreased, chemically treated, masked, stencils fabricated and applied. ◆ Able to make preparation for the coating system materials in accordance with the procedures,e.g. viscosity, cleanliness, ingredients mixed, color checked. ◆ Able to apply the coating system in accordance with the procedures,e.g. primer, top coats. ◆ Able to confirm the color scheme is matched with the specifications. ◆ Able to remove the masking from aircraft, aircraft components or aeronautical equipment in accordance with the procedures. ◆ Able to rectify the non-conformities in accordance with the procedures. ◆ Able to obtain the inspections in accordance with the procedures,e.g. independent, duplicate, progressive. <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 removing coating system within the stipulated duration.
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	<ul style="list-style-type: none"> ◆ Able to check the resources for serviceability in accordance with the procedures. ◆ Able to handle or recycle the waste and surplus materials in accordance with the procedures, e.g. serviceable, unserviceable, surplus, waste, scrap, hazardous ◆ Able to complete the documentation in accordance with the procedures. ◆ 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, return of aircraft and systems to normal.
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 application of coating systems. (ii) Able to apply coating systems by spraying method to aircraft, aircraft components, or aeronautical equipment. (iii) Able to complete all the requirements associated with the task.
8. Remarks	<p>(Ref: HKAR-66 Module 2.1, 6.4 & 7.18)</p> <p>The Credit in this UoC is on the assumption of the person already possessed foundation knowledge in inspection methods of engineering materials.</p> <p>Ref: NZQA - 4014</p>