

1. Title	Aircraft metal and composite structures visually inspection
2. Code	EMAMWS463A
3. Range	<p>Aeronautical metals and composite structures visually inspection are performed in an aircraft hangar or workshop by using appropriate tools or machines.</p> <p>Structures including: metal and composite structures, main frames, auxiliary structures, plates/skin, attached fittings, aerodynamic fairings, flight control surfaces, doors, rigid integral fuel tanks.</p> <p>Structural components do not need to be removed to meet the intent of this UoC.</p>
4. Level	4
5. Credit	5
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 determine the inspection requirement by reviewing maintenance documentation and procedures. ◆ Able to prepare the work area, obtain and check the resources for serviceability or status in accordance with the procedures, e.g. publications, cleaning materials, tools, safety equipment, illumination, magnifying glass, mirror. ◆ Able to clean the structural area to be inspected in accordance with the procedures. <p>6.2 Visually inspection</p> <ul style="list-style-type: none"> ◆ Able to visually inspect the structures in accordance with the procedures. ◆ Able to locate and identify the defects in accordance with the procedures, e.g. cracking, corrosion, distortion, leaks, fretting, stress, scoring, loose fasteners, damage to protective finish, wear delamination.

	<ul style="list-style-type: none"> ◆ Able to inspect the aircraft after an abnormal occurrence in accordance with the procedures, e.g. heavy landing, bird strike, lightning strike, extreme turbulence, foreign object damage, corrosive substance spillage, flap down over speed. Evidence is required for a minimum of three types of occurrence. ◆ Able to report and record the defects found during inspection in accordance with the procedures. ◆ 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 visual inspections of metal and composite aircraft structures. (ii) Able to visually inspect the aircraft metal and composite structures.
8. Remarks	Ref: NZQA - 4074