

1. Title	Aeronautical components peen
2. Code	EMAMWS412A
3. Range	The aeronautical components peening are usually carried out on the aircraft in the hangar.
4. Level	4
5. Credit	9
6. Competency	<p style="text-align: center;"><u>Performance Requirement</u></p> <p>6.1 Prepare to peen component</p> <ul style="list-style-type: none"> <li>◆ Able to establish the task by reviewing documentation and procedures.</li> <li>◆ Able to match the component identification with documentation by comparing serial and part numbers.</li> <li>◆ Able to prepare the work area and obtain resources in accordance with the procedures, e.g. publications, materials, tooling, equipment, spares, safety equipment, environmental conditions.</li> </ul> <p>6.2 Methods and procedures of aeronautical component peening</p> <ul style="list-style-type: none"> <li>◆ Able to establish the safety of machine in accordance with the procedures, e.g. guards, isolation procedures, protective equipment.</li> <li>◆ Able to mask the component in accordance with the procedures, e.g. holes, protected areas.</li> <li>◆ Able to prepare the Almen test strip in accordance with the procedures, e.g. air pressure, media type and weight, Almen strip type, time and distance.</li> <li>◆ Able to measure the Almen strip curvature is measured in accordance with the procedures.</li> <li>◆ Able to set the machine for task requirement in accordance with the procedures, e.g. air pressure, distance, time.</li> </ul>

	<p>6.3 Professional approach</p> <ul style="list-style-type: none"> <li>◆ Able to peen the component in accordance with the procedures, e.g. time, distance.</li> <li>◆ Able to remove the masking from component in accordance with the procedures.</li> <li>◆ Able to measure and check the component for conformity with specifications, e.g. dimensional and/or angular accuracy, profile, surface finish.</li> <li>◆ Able to report, record and rectify the defects in accordance with the procedures.</li> <li>◆ 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.</li> <li>◆ Able to complete the task within the stipulated duration.</li> <li>◆ 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.</li> <li>◆ Able to handle the hazardous waste materials in accordance with the procedures.</li> </ul>
7. Assessment Criteria	<p>The integral outcome requirement of this UoC is:</p> <p>(i) Able to modify the stress condition of the aeronautical component parts by shot and/or bead peening.</p>
8. Remarks	Ref: NZQA - 4066