

1. Title	Aeronautical components repairing and/or fabricating by using milling machines
2. Code	EMAMWS409A
3. Range	The aeronautical component repairs and/or fabrication using milling machines 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 Preparation</p> <ul style="list-style-type: none"> ◆ Able to confirm the component identity with documentation by comparing serial and part numbers. ◆ Able to establish and record the task in accordance with the procedures, e.g. repair, fabricate, modify ◆ 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. <p>6.2 Methods and procedures</p> <ul style="list-style-type: none"> ◆ Able to prepare the machines in accordance with the procedures, e.g. maintained, set up, made safe to work on, guards positioned, isolation procedures complied with, protective equipment ◆ Able to plan and verify the sequence of operations in accordance with the procedures. ◆ Able to mill the components to shape in accordance with the procedures. ◆ Able to measure and check the components for conformity with specifications.

6.3 Professional approach

- ◆ Able to assess the serviceability of component parts in accordance with the procedures,e.g. dimensional and angular accuracy, profile, surface finish, mismatch of cuts.
- ◆ Able to report, record and rectify the non-conforming components in accordance with the procedures.
- ◆ Able to perform inspections in accordance with the procedures,e.g. independent, duplicate, progressive.
- ◆ Able to prepare the components for use, storage or transit in accordance with the procedures,e.g. surface protection, packing.
- ◆ Able to complete the documentation in accordance with the procedures,e.g. labels, work cards, release notes, certification.
- ◆ 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 task within the stipulated duration.
- ◆ Able to clean, prepare and store the tools and equipment are for future use in accordance with the procedures.
- ◆ Able to handle the hazardous waste materials in accordance with the procedures.
- ◆ Able to return the work area in a condition enabling next task to begin, in accordance with the procedures

7. Assessment Criteria	The integral outcome requirement of this UoC is: (i) Able to repair and fabricate the aeronautical component parts including cams, racks, and gears using milling machines and a range of aeronautical materials.
8. Remarks	Ref: NZQA - 4029