1. Title	Composite aeronautical components fabrication and repair at elevated temperature		
2. Code	EMAMWS404A		
3. Range	Composite aeronautical components repair and fabrication are usually carried out on the aircraft in the hangar. Elevated temperature is that where materials are cured above 65 degrees Celsius (150 degrees Fahrenheit)		
4. Level	4		
5. Credit	9		
6. Competency	Performance Requirement		
	 6.1 Preparation Able to review the documents and procedures. Able to set up the work environment in accordance with the procedures, e.g. publications, materials, tooling, equipment, safety equipment, environmental conditions established Able to plan the fabrication and repair task in accordance with the procedures, e.g. inspection, damage determination Able to obtain and check the resources for serviceability or status in accordance with the procedures with the procedures, e.g. tools, equipment, safety equipment, publications, materials Able to produce the repair or manufacturing sketches to meet specifications. Able to make preparation for the component in accordance with manufacturer's instructions, e.g. cleaned, disassembled, support tooling attached, damage removed, surface prepared. 		

 support the tooling for lay up. Able to make preparation for the equipmen for use in accordance with manufacturer's instructions, e.g. operate, calibrate Able to secure the work area to preven disruption to lay up process. 6.2 Lay up fabrication and repair materials Able to make preparation for the materials in accordance with the procedures. Able to apply the materials in accordance with the procedures. Able to fabricate and prepare the test coupor in accordance with specifications and procedures. 	ГТ		
 fabrication and accordance with the procedures. Able to apply the materials in accordance with the procedures. Able to fabricate and prepare the test coupor in accordance with specifications and procedures. 			 Able to make preparation for the equipment for use in accordance with manufacturer's instructions, e.g. operate, calibrate Able to secure the work area to prevent
 in accordance with specifications. Able to remove the tooling and suppor equipment without causing damage. Able to verify the component serviceability in accordance with the procedures, e.g inspecting, troubleshooting, obtaining specialist advice. Able to initiate the further fabrication and/o repair work for non-conforming work in accordance with the procedures. Able to seal the composite material edges in accordance with the procedures. Able to finish the component and restore the surface in accordance with specifications and 		fabrication and	 Able to apply the materials in accordance with the procedures. Able to fabricate and prepare the test coupon in accordance with specifications and procedures. Able to apply and control the pressure in accordance with specifications. Able to control the cure time and temperature in accordance with specifications. Able to remove the tooling and support equipment without causing damage. Able to verify the component serviceability in accordance with the procedures, e.g. inspecting, troubleshooting, obtaining specialist advice. Able to initiate the further fabrication and/or repair work for non-conforming work in accordance with the procedures. Able to seal the composite material edges in accordance with the procedures. Able to finish the component and restore the surface in accordance with specifications and procedures, e.g. potting and filling, surface

	 Able to perform inspections in accordance with the procedures. Able to complete the documentation in accordance with the procedures. 6.3 Professional Able to complete the task within the stipulated duration. Able to understand the legislative requirements, aviation authority requirements, manufacturers' publications and the maintenance organizations' approved maintenance practices and requirements. 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. Abel to check the resources for serviceability and return them to service or storage in accordance with the procedures, e.g. tools, equipment, safety equipment, procedures. 	
	equipment, safety equipment, procedures. • Able to handle the unused items, parts, and	
7. Assessment Criteria	 The integral outcome requirement of this UoC are: (i) Able to make preparation for fabrication and repair of composite aeronautical components at elevated temperature. (ii) Able to lay up the fabrication and repair materials. (iii) Able to restore the components and prepare components for use. (iv) Able to complete all the requirements associated with the task. 	
8. Remarks	Ref: NZQA - 4024	