1. Title	Aircraft gearboxes and/or transmissions maintenance			
2. Code	EMAMBG415A			
3. Range	Tasks that work on transmission systems including gears, belts & pulleys, chains & sprockets etc. in an aircraft hangar or workshop during the aircraft grounded time.			
4. Level	4			
5. Credit	9			
6. Competency	Performance Requirement			
	 6.1 Operating principles Understand the operating principles and applications of different transmission systems, including : gears : gear ratios, mesh patterns belts and pulleys : tension and construction of different types e.g. flatbelts and powerbelts chains and sprockets : tooth profile screw jacks, lever devices and push-pull rod systems 			
	 6.2 Methods and procedures Able to review the maintenance documents and procedures to decide on maintenance task. Able to obtain and check the resources for serviceability in accordance with the procedures, e.g. publications, tools, equipment, safety equipment, materials. Able to confirm the system to be maintained is matched with the aircraft registration and documentation. 			

		•	Able to prepare the systems for the
			application of power and system operation in
			accordance with the procedures, e.g. cockpit
			controls match component positions,
			clearances, isolation tags, warning signs.
		•	Able to prepare the ground and/or support
			equipment for aircraft gearboxes and/or
			transmissions maintenance activities in
			accordance with the procedures.
		•	Able to determine the serviceability in
			accordance with the procedures, e.g. inspect,
			troubleshoot, assess, test.
		•	Able to report and record the defects in
			accordance with the procedures.
		•	Able to rectify the defects by the approved
			method in accordance with the
			procedures, e.g. repair, replace, modify,
			adjust, calibrate, lubricate.
		•	Able to procure the replacement parts and
			verify their authenticity and serviceability in
			accordance with the procedures, e.g. identify,
			inspect.
		•	Able to test the aircraft gearboxes and/or
			transmissions to verify their serviceability in
			accordance with the procedures.
		•	Able to perform inspections in accordance
			with the procedures.
6.3	Professional	٠	Able to follow manufacturers' instruction or
	approach		work manuals to perform the work.
		•	Able to adopt safety precautions according to
			the nature of the work.

7. Assessment Criteria	 Able to complete the task within the stipulated duration. Able to complete the task in the work area in accordance with the procedures, e.g. tool control, cleanliness, tidiness, return of publications, systems and aircraft left for next activity. Able to check the resources for serviceability and returned to service or storage in accordance with the procedures, e.g. tools, equipment, safety equipment. Able to handle the unused parts and materials in accordance with the procedures, e.g. serviceable, unserviceable, surplus, waste, scrap, hazardous. Able to complete the documentation in accordance with the procedures. The integral outcome requirement of this UoC are: (i) Able locate the defects in gearboxes and/or transmissions. (ii) Able to restore the airworthiness of gearboxes and/or transmissions. 			
8. Remarks	(Ref: HKAR-66 Module 6.9 & 7.12) The Credit in this UoC is on the assumption of the person already possessed basic knowledge in the manipulation of common tools. Ref: NZQA - 3408			