1. Title	Propulsion system (Avionics Repair and Maintenance)
2. Code	EMAMBX502A
3. Range	The knowledge is needed for a wide range of aircraft repair and maintenance works,e.g. applicable to aircrafts, analysis, machineries, airworthiness, airframes, avionics, materials, tests, documentation, safety, health and tools etc.
4. Level	5
5. Credit	4
6. Competency	Performance Requirement 6.1 Knowledge ♦ Able to understand the turbine engines • Constructional arrangement and operation of turbojet, turbofan, turboshaft and turbopropeller engines. • Electronic Engine control and fuel metering systems (FADEC). ♦ Able to understand the engine indicating systems. • Exhaust gas temperature / Interstage turbine temperature systems. • Engine speed. • Engine Thrust Indication: Engine Pressure Ratio, engine turbine discharge pressure or jet pipe pressure systems. • Oil pressure and temperature. • Fuel pressure, temperature and flow. • Manifold pressure. • Engine torque. • Propeller speed. 6.2 Theoretical and practical aspects ♦ Able to apply the following knowledge in the aircraft maintenance. • Turbine engines. • Engine indicating system.

	6.3 Professional approach	♦ Able to understand the principal elements of the subjects. ♦ Able to understand the general knowledge of the theoretical and practical aspects of the following subjects. • Electronic Engine control and fuel metering systems (FADEC). • Engine indicating systems. ♦ Able to apply the knowledge in the aircraft maintenance task.
7. Assessment Criteria	The integral outcomes requirement of this UoC are: (i) Able to understand the theoretical fundamentals of the subjects. (ii) Able to give a general description of the subjects using, as appropriate, typical examples. (iii) Able to use mathematical formulae in conjunction with physical laws describing the subjects. (iv) Able to read and understand sketches, drawings and schematics describing the subjects. (v) Able to apply the knowledge relating to avionics repair and maintenance in a practical manner using detailed procedures.	
8. Remarks	Ref: HKAR-66 Module 14: Propulsion system	