

1. Title	Digital techniques and electronic instrument systems I	
2. Code	EMAMAG337A	
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	3	
5. Credit	2	
6. Competency	<u>Performance Requirement</u>	
	6.1 Knowledge	<ul style="list-style-type: none"> ◆ Able to understand the electronic instrument systems ◆ Able to understand the numbering systems <ul style="list-style-type: none"> • Numbering systems: binary, octal and hexadecimal. ◆ Able to understand the data buses ◆ Able to understand the basic computer structure <ul style="list-style-type: none"> • Computer terminology (including bit, byte, software, hardware, CPU, IC, and various memory devices such as RAM, ROM, PROM). • Computer technology (as applied in aircraft systems). ◆ Able to understand the electrostatic sensitive devices <ul style="list-style-type: none"> • Special handling of components sensitive to electrostatic discharges. • Awareness of risks and possible damage, component and personnel anti-static protection devices.

	6.2 Professional approach ♦ Able to understand the principal elements of the subjects.
7. Assessment Criteria	The integral outcomes requirement of this UoC are: (i) Able to understand the basic elements of the subjects. (ii) Able to give a simple description of the whole subject, using common words and examples. (iii) Able to use the typical terms.
8. Remarks	Ref: HKAR-66 Module 5: Digital techniques and electronic instrument systems