

CORE OBJECTIVES (ACE)

1. Engineering Practice and Application	Code	ES Initials & Date of Assessment			
		G	K	E	C
<p>Part I</p> <p>1.1 Aircraft Engineering Practice</p> <ul style="list-style-type: none"> i) The concept of airworthiness ii) Hong Kong SAR aviation legislation iii) U.S. and E.U. aviation legislation iv) Air Operator’s Certificate requirements and practices v) Design / Production organisation requirements and practices vi) Maintenance organisation requirements and practices vii) Continuing Airworthiness Management viii) Human Factors ix) Safety Management Systems x) Electrical and electronic fundamentals xi) Digital Techniques and electronic instrument systems xii) Material and hardware xiii) Maintenance Practices xiv) Aeroplane / helicopter aerodynamics, structures and systems xv) Gas Turbine Engine / Piston Engine / Propeller <p>Part II (choose 1.2 or 1.3)</p> <p>1.2 Design</p> <ul style="list-style-type: none"> i) Airworthiness codes on aircraft systems / engines / structures ii) Type approval process appreciation iii) Classification of major / minor change and repair iv) Major / minor changes in aircraft systems / engines / structures v) Major / minor repairs in aircraft systems / engines / structures vi) Design document compilation vii) Design liaison with aircraft / engine manufactures viii) Critical Design Configuration Control Limitations Ageing Aircraft and ageing aircraft systems ix) Safety assessment x) Maintenance programme and reliability <p><i>*As appropriate to the company</i></p>	C				
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<p>1.3 Maintenance Operations</p> <ul style="list-style-type: none"> i) Certificate of Airworthiness process ii) Certificate of Release to Service process iii) Maintenance programme process iv) Reliability programme process v) Design / maintenance liaison with aircraft / engine manufacturers / aviation authorities / operators vi) Maintenance check schedule and package management vii) Production planning and control viii) Defect control and management ix) Aircraft, engine and structure standard maintenance practices x) Aircraft / engine systems and structures design appreciation, modification, repair, overhaul, replacement and inspection xi) Critical Design Configuration Control Limitations xii) Ageing Aircraft and ageing aircraft systems <p style="margin-top: 20px;"><i>*As appropriate to the company</i></p>	C				

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2. Aircraft Engineering Administration and Management Techniques	Code	ES Initials & Date of Assessment			
		G	K	E	C
<p>2.1 Technical and Commercial Leadership</p> <ul style="list-style-type: none"> i) Maintenance error management ii) Quality management iii) Lean sigma for improvement iv) Project management v) Financial management vi) Supply chain management vii) Knowledge management viii) Occupational Safety & Health management ix) Environmental management 	*C/E				
<p>2.2 Interpersonal Skills</p> <ul style="list-style-type: none"> i) Leadership for results ii) Effective team building iii) Effective communication iv) Effective presentation skills 	*C/E				