

CORE OBJECTIVES (MIE)

1. Engineering Practice Part I	Code	ES Initials & Date of Assessment			
		G	K	E	C
1.1 Basic Engineering Practice - Knowledge and use of hand/power tools and machine tools (Choose either 1.2 or 1.3)	*C/E				
1.2 Production Processes (min 2 of the followings) - Metal forming processes - Foundry practice or powder metallurgy - Metal removal processes - Plastics processing - Joining of materials - Heat treatment processes - Surface treatment - PCB production - IC fabrication processes - Automated/mechanized processes - Apparel manufacturing processes	*C/E				
1.3 Service Operations (min 2 of the followings) - Planning and scheduling - Project management - Inventory control - Logistics and support - Costing - Work study/design	*C/E				
1.4 Quality, Measurement and Statistical Analysis - Use of common measuring instruments - Quality control sampling method - Data collection and statistical analysis	*C/E				
*As appropriate to the company					

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2. Engineering Practice Part II	Code	ES Initials & Date of Assessment			
		G	K	E	C
<p>2.3 Industrial Management and Commercial Activities (at least 2 of the followings)</p> <ul style="list-style-type: none"> - Organisation structure - Human resources management - Purchasing - Data processing - Dispatch and transportation - Sales and marketing - Plant engineering/maintenance - Training <p><u>Functional Specialist Training</u> (either 2.4 or 2.5 or a combination of both, min 8 in total)</p>	*C/E				
<p>2.4 Manufacturing Industry</p> <ul style="list-style-type: none"> - Process planning and design - Tooling design - Work study and wage systems - Quality assurance - Production scheduling and control - Inventory control - Maintenance - CAD/CAM 	C				
<p>2.5 Service Industry</p> <ul style="list-style-type: none"> - Forecasting and planning - Operation scheduling - Operation control - Work study and wage systems - Inventory control - Maintenance systems - Cost control - Management information systems - Organisation and management - Office automation 	C				
<p><i>*As appropriate to the company</i></p>					