

**Formal Training Scheme to Associate Membership
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 (at least 2 of the following) - 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 (at least 2 of the following) - 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					

**Formal Training Scheme to Associate Membership
CORE OBJECTIVES (MIE)**

2. Engineering Practice Part II	Code	ES Initials & Date of Assessment			
		G	K	E	C
<p>2.1 (Choose either 2.1 or 2.2) Manufacturing Systems (at least 1 from each Group A & B)</p> <p><u>Group A</u></p> <ul style="list-style-type: none"> - Design and development of process methods, work specification, workplace layout - Plant layout and materials handling - Management information - Research and development - Product design - Tooling design - CAD/CAM systems and applications <p><u>Group B</u></p> <ul style="list-style-type: none"> - Production planning and control, work scheduling - Quality control and inspection processes, statistical quality control systems - Inventory control - Work study, job evaluation, rate fixing - Testing and commissioning of plant - Material sourcing 	C				
<p>2.2 Service Systems (at least 1 from each Group A & B)</p> <p><u>Group A</u></p> <ul style="list-style-type: none"> - Business process engineering and design - Demand forecasting, operational planning and scheduling - Management information system - Service network and logistics design - Plant layout and process flow design - Project planning and control <p><u>Group B</u></p> <ul style="list-style-type: none"> - Quality assurance of service systems - Work study, job evaluation, rate fixing - Motivation and incentive system - Testing and commissioning of plant and service - Materials and supplier sourcing - Reliability, maintenance and service engineering - EDI, communication 	C				

**Formal Training Scheme to Associate Membership
CORE OBJECTIVES (MIE)**

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 1 of the following)</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 	*C/E				
*As Appropriate to the Company					

**Formal Training Scheme to Associate Membership
CORE OBJECTIVES (MIE)**

3. Functional Specialist Training	Code	ES Initials & Date of Assessment			
		G	K	E	C
<p>(Choose either 3.1 or 3.2)</p> <p>3.1 Manufacturing Industry (at least 1 of the following)</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>3.2 Service Industry (at least 1 of the following)</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				