

CORE OBJECTIVES (ELL)

1. Electrical Engineering Fundamentals	Code	ES Initials & Date of Assessment			
		G	K	E	C
1.1 Generation, Transmission & Distribution and Utilization of Electricity <ul style="list-style-type: none"> - Principle of electricity generation, transmission and distribution - Development trend of electricity generation, transmission and distribution - Commercial and industrial application of electricity 	E				
1.2 Load Growth, Load Flow & Fault level	E				
1.3 H.V. Engineering	E				
1.4 Basic Components <ul style="list-style-type: none"> - generators - switchgear - transformers - electronic drives - capacitors/reactors - cables - overhead lines - protection and control equipment 	E				
1.5 Application of Modern Electronic, Communication and Computer Systems to Electrical Power Systems	E				

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2. Engineering Design	Code	ES Initials & Date of Assessment			
		G	K	E	C
<p>2.1 Design Office Practice</p> <ul style="list-style-type: none"> - Codes of Practice - Stages of design - Computer-aided design packages - Specifications 	C				
<p>2.2 Synthesis</p> <ul style="list-style-type: none"> - Selection of Units/components - Total design considerations - Alternative solutions 	*C/E				
<p><i>* As appropriate to the company</i></p>					

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3. Operational Reliability	Code	ES Initials & Date of Assessment			
		G	K	E	C
3.1 Installation, Testing & Commissioning - Procedures - Preparation - Testing/Setting to work	C				
3.2 Testing Equipment - Selection - Range and accuracy - Performance monitoring - Calibration	C				
3.3 Quality Procedures - ISO 9000 Standards and other international standards applicable - Total quality management - Quality control/Quality assurance	*C/E				
3.4 Operation Safety - Procedures - Resource scheduling, monitoring and control - Supervision/management - Safety practices	C				
3.5 Maintenance of Electrical Equipment - Condition Monitoring - Preventive maintenance - Corrective maintenance - Post-mortem analysis - Computer-aided maintenance management - Diagnostic Techniques	C				
<i>* As appropriate to the company</i>					

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4. Engineering Administration & Management	Code	ES initials and Date of Assessment			
		G	K	E	C
4.1 Finance and Accounting - Basic accounting concept - Account coding system - Budgeting concept - Budget control concept - Stock control concept	E				
4.2 Commercial Procedures - Purchase requisition concept - Tendering concept - contracts management concept	*C/E				
4.3 Personnel Management - Human resources deployment and development concept - Motivation of sub-ordinates	E				
4.4 Information Management System - Electronic mail system - External and internal correspondences	*C/E				
4.5 Project Management - Supervisor skills - Problem-solving and decision-making techniques - Project control techniques - Cost Management - Programme Management	*C/E				
<i>* As appropriate to the company</i>					