



**CARIBBEAN EXAMINATIONS COUNCIL
CARIBBEAN SECONDARY EDUCATION CERTIFICATE®**

**SCHOOL-BASED ASSESSMENT
INDUSTRIAL TECHNOLOGY
OPTION A – ELECTRICAL AND ELECTRONIC TECHNOLOGY
TECHNICAL PROFICIENCY
MARK SCHEME**

To be used by the moderator in the assessment of candidates' work

	Ratings	Maximum Mark		
		KC	UK	PA
CORE				
Fundamentals of Industry				
• Organization of a selected construction industry		03	-	
• Organization of a selected manufacturing industry		03	-	
• Set of safety rules		04	-	
• Report of an accident		-	05	
• Small business plan		-	05	
Design Principles and Processes				
• Design analysis of a simple manufactured product		-	05	
Information Communication Technology				
• PowerPoint presentation		-	05	
Sub-Total		10	20	
Section 1 – Electrical Principles and Measurement				
Project Design				03
Set-up and Testing				11
Observations				05
Presentation				03
Conclusion				02
Sub-Total				24
Section 2 - Electrical and Electronic Drafting				
Symbols and Notations				06
Line and Block Representations				06
Schematic Diagrams and Electrical Installation Drawings				06
Working Drawings				06
Sub-Total				24
Section 3 – Electrical Power and Machines				
Project Design				03
Set-up and Testing				11
Observations				05
Presentation				03
Conclusion				02
Sub-Total				24

	Ratings	Maximum Mark		
		KC	UK	PA
Section 4 – Electrical Installation				
Project Design				03
Set-up and Testing				11
Observations				05
Presentation				03
Conclusion				02
Sub-Total				24
Section 5 – Fundamentals of Electronics				
Project Design				03
Set-up and Testing				11
Observations				05
Presentation				03
Conclusion				02
Sub-Total				24
Profile Totals		10	20	120
Grand Total	150			



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**SCHOOL-BASED ASSESSMENT
INDUSTRIAL TECHNOLOGY
OPTION B – MECHANICAL ENGINEERING TECHNOLOGY
TECHNICAL PROFICIENCY
MARK SCHEME**

To be used by the moderator in the assessment of candidates' work

	Ratings	Maximum Mark		
		KC	UK	PA
CORE				
Fundamentals of Industry				
• Organization of a selected construction industry		03	-	
• Organization of a selected manufacturing industry		03	-	
• Set of safety rules		04	-	
• Report of an accident		-	05	
• Small business plan		-	05	
Design Principles and Processes				
• Design analysis of a simple manufactured product		-	05	
Information Communication Technology				
• PowerPoint presentation		-	05	
Sub-Total		10	20	
Graphic Communication and Design Project				
Identification of the engineering need				03
Sketches/drawings of possible solutions				06
Incorporation of design principles – axis, symmetry, hierarchy, rhythm				06
Final solution is workable				09
Steps in the design process are followed				06
Sub-Total				30
Sheet Metal Project				
Pictorial Sketch				02
Procedure				04
List of Materials				03
Layout and Construction				05
Joints				05
Assembly				07
Finish				04
Sub-Total				30

	Ratings	Maximum Mark		
		KC	UK	PA
Welding Project				
Pictorial Sketch				02
Procedure				04
List of Materials				03
Layout and Construction				05
Joints				05
Assembly				07
Finish				04
Sub-Total				30
Machining Project				
Pictorial Sketch				02
Procedure				04
List of Materials				03
Layout and Construction				05
Joints				05
Assembly				07
Finish				04
Sub-Total				30
Profile Totals		10	20	120
Grand Total	150			



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**SCHOOL-BASED ASSESSMENT
INDUSTRIAL TECHNOLOGY
OPTION C – BUILDING AND FURNITURE TECHNOLOGY
TECHNICAL PROFICIENCY
MARK SCHEME**

To be used by the moderator in the assessment of candidates' work

	Ratings	Maximum Mark		
		KC	UK	PA
CORE				
Fundamentals of Industry				
• Organization of a selected construction industry		03	-	
• Organization of a selected manufacturing industry		03	-	
• Set of safety rules		04	-	
• Report of an accident		-	05	
• Small business plan		-	05	
Design Principles and Processes				
• Design analysis of a simple manufactured product		-	05	
Information Communication Technology				
• PowerPoint presentation		-	05	
Sub-Total		10	20	
Site Work Operations Project				
Layout of a Building				
• Establishing base/building line				02
• Establishing corner profiles				03
• Ensuring layout is square				02
• Establishing trench and wall widths				03
Sub-Total				10
Basic Architectural Drawing Project				
• Design/redesign of a building component				
• Description of problem				04
• Possible solutions				06
• Orthographic drawings				12
• List of materials and cost				08
• Steps of procedure				10
Sub-Total				40

	Ratings	Maximum Mark		
		KC	UK	PA
Construction Project				
Pictorial Sketch				03
Procedure				04
List of Materials				04
Layout and Construction				06
Joints				06
Assembly				07
Finish				05
Sub-Total				35
Furniture Technology Project				
Pictorial Sketch				03
Procedure				04
List of Materials				04
Layout and Construction				06
Joints				06
Assembly				07
Finish				05
Sub-Total				35
Profile Totals		10	20	120
Grand Total	150			