



FRM/EDPD/043

CARIBBEAN EXAMINATIONS COUNCIL
CARIBBEAN SECONDARY EDUCATION CERTIFICATE®

MODERATOR'S COMMENTS AND RATINGS
ON SCHOOL-BASED ASSESSMENT

ELECTRICAL AND ELECTRONIC TECHNOLOGY

PROCESS AND PRODUCT EVALUATION

CENTRE NO.:

CANDIDATE NO.:

CARIBBEAN EXAMINATIONS COUNCIL

CARIBBEAN SECONDARY EDUCATION CERTIFICATE®

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

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

		Maximum Mark		
		KC	UK	PA
CORE				
Fundamentals of Industry				
Organization of a selected construction industry - Organizational structure clearly stated - Partial organizational structure identified	- 3 marks - 1-2 marks	03	-	
Organization of a selected manufacturing industry - Organizational structure clearly stated - Partial organizational structure identified	- 3 marks - 1-2 marks	03	-	
Set of safety rules - Five to ten safety rules for an industry or occupational area - Less than five safety rules for an industry or occupational area	- 3-4 marks - 1-2 marks	04	-	
Report of an accident - Detailed accident report indicating time, place and nature of accident, who was impacted and remedies employed - One to two factors are missing from the report - Very limited report with most factors missing	- 5 marks - 3-4 marks - 1-2 marks	-	05	
Small business plan - Business plan to include statement of purpose, description of business, services, marketing plan and how the business will be operated - Limited plan, with several elements missing	- 3- 5 marks - 1-2 marks	-	05	
Design Principles and Processes				
Design analysis of a simple manufactured product - Detailed analysis of product to include the six elements of design - One to two design elements are not included - Very limited use of the design elements in the product analysis	- 5 marks - 3-4 marks - 1-2 marks	-	05	
Information Communication Technology				
PowerPoint presentation - At least six slides presented with suitable font size and uncluttered text - Three to four slides presented with suitable font size and uncluttered text - Slides presented with a small font size and text is cluttered	- 5 marks - 3-4 marks - 1-2 marks	-	05	
Sub-Total		10	20	

		Maximum Mark		
		KC	UK	PA
Section 1 – Electrical Principles and Measurement				
Project Design				03
- Design meets the requirements of the need	- 3 marks			
- Design does not adequately meet the need	- 1-2 marks			
Set-up and Testing				11
- The set-up encapsulates the design, takes account of relevant theory, schematics are relevant and accurate and testing is completed	- 9-11 marks			
- The set-up encapsulates the design, takes account of relevant theory, schematics are relevant and accurate, but testing is incomplete	- 6-8 marks			
- The set-up encapsulates the design, takes account of relevant theory, schematics are not accurate, testing is incomplete	- 3-5 marks			
- The set-up does not fully encapsulate the design, takes account of relevant theory, schematics are incomplete and testing has not been completed	- 1-2 marks			
Observations				05
- All results are accurately recorded	- 5 marks			
- Most results are recorded	- 3-4 marks			
- Very few results are recorded	- 1-2 marks			
Presentation				03
- Complete presentation is given	- 3 marks			
- Partial presentation is given	- 1-2 marks			
Conclusion				02
- Conclusion fully encapsulates the activities	- 2 marks			
- Conclusion is a partial encapsulation of activities	- 1 mark			
	Sub-Total			24
Section 2 - Electrical and Electronic Drafting				
Symbols and Notations				06
- Common symbols and notations are evident	- 5-6 marks			
- Common symbols without notations are evident	- 3-4 marks			
- Few common symbols without notations are evident	- 1-3 marks			
Line and Block Representations				06
- Both line and block line and block representations are clear and unambiguous	- 5-6 marks			
- Both line and block representations are made but are unclear	- 3-4 marks			
- Only one type has been presented and is unclear	- 1-3 marks			
Schematic Diagrams and Electrical Installation Drawings				06
- Schematic diagrams and electrical installation drawings are clear and detailed	- 5-6 marks			
- Schematic diagrams and electrical installation drawings are lack a few details	- 3-4 marks			
- Schematic diagrams and electrical installation drawings are lack most details	- 1-3 marks			
Working Drawings				06
- Accurate, detailed working drawings are provided	- 5-6 marks			
- Drawings are accurate, but have a few details are missing	- 3-4 marks			
- Drawings are poorly executed with many details missing	- 1-3 marks			
	Sub-Total			24

		Maximum Mark		
		KC	UK	PA
Section 3 – Electrical Power and Machines				
Project Design				03
- Design meets the requirements of the need	- 3 marks			
- Design does not adequately meet the need	- 1-2 marks			
Set-up and Testing				11
- The set-up encapsulates the design, takes account of relevant theory, schematics are relevant and accurate and testing is completed	- 9-11 marks			
- The set-up encapsulates the design, takes account of relevant theory, schematics are relevant and accurate, but testing is incomplete	- 6-8 marks			
- The set-up encapsulates the design, takes account of relevant theory, schematics are not accurate, testing is incomplete	- 3-5 marks			
- The set-up does not fully encapsulate the design, takes account of relevant theory, schematics are incomplete and testing has not been completed	- 1-2 marks			
Observations				05
- All results are accurately recorded	- 5 marks			
- Most results are recorded	- 3-4 marks			
- Very few results are recorded	- 1-2 marks			
Presentation				03
- Complete presentation is given	- 3 marks			
- Partial presentation is given	- 1-2 marks			
Conclusion				02
- Conclusion fully encapsulates the activities	- 2 marks			
- Conclusion is a partial encapsulation of activities	- 1 mark			
	Sub-Total			24
Section 4 – Electrical Installation				
Project Design				03
- Design meets the requirements of the need	- 3 marks			
- Design does not adequately meet the need	- 1-2 marks			
Set-up and Testing				11
- The set-up encapsulates the design, takes account of relevant theory, schematics are relevant and accurate and testing is completed	- 9-11 marks			
- The set-up encapsulates the design, takes account of relevant theory, schematics are relevant and accurate, but testing is incomplete	- 6-8 marks			
- The set-up encapsulates the design, takes account of relevant theory, schematics are not accurate, testing is incomplete	- 3-5 marks			
- The set-up does not fully encapsulate the design, takes account of relevant theory, schematics are incomplete and testing has not been completed	- 1-2 marks			
Observations				05
- All results are accurately recorded	- 5 marks			
- Most results are recorded	- 3-4 marks			
- Very few results are recorded	- 1-2 marks			
Presentation				03
- Complete presentation is given	- 3 marks			
- Partial presentation is given	- 1-2 marks			

		Maximum Mark		
		KC	UK	PA
Conclusion				02
- Conclusion fully encapsulates the activities	- 2 marks			
- Conclusion is a partial encapsulation of activities	- 1 mark			
	Sub-Total			24
Section 5 – Fundamentals of Electronics				
Project Design				03
- Design meets the requirements of the need	- 3 marks			
- Design does not adequately meet the need	- 1-2 marks			
Set-up and Testing				11
- The set-up encapsulates the design, takes account of relevant theory, schematics are relevant and accurate and testing is completed	- 9-11 marks			
- The set-up encapsulates the design, takes account of relevant theory, schematics are relevant and accurate, but testing is incomplete	- 6-8 marks			
- The set-up encapsulates the design, takes account of relevant theory, schematics are not accurate, testing is incomplete	- 3-5 marks			
- The set-up does not fully encapsulate the design, takes account of relevant theory, schematics are incomplete and testing has not been completed	- 1-2 marks			
Observations				05
- All results are accurately recorded	- 5 marks			
- Most results are recorded	- 3-4 marks			
- Very few results are recorded	- 1-2 marks			
Presentation				03
- Complete presentation is given	- 3 marks			
- Partial presentation is given	- 1-2 marks			
Conclusion				02
- Conclusion fully encapsulates the activities	- 2 marks			
- Conclusion is a partial encapsulation of activities	- 1 mark			
	Sub-Total			24
		KC	UK	PA
	Profile Totals	10	20	120