

THE KENYA NATIONAL EXAMINATIONS COUNCIL  
Kenya Certificate of Secondary Education

448/2  
Inst. Sch.

— **ELECTRICITY** —  
(PRACTICAL INSTRUCTIONS)

**Paper 2**

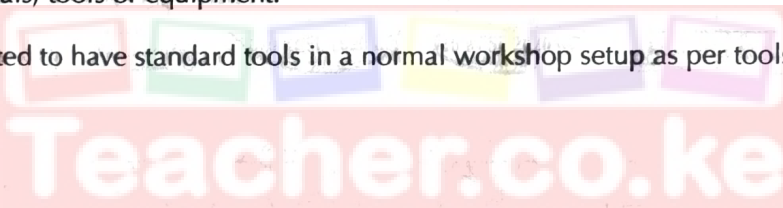
**Apr. 2021**



**INSTRUCTIONS TO SCHOOLS**

**CONFIDENTIAL**

1. The quantities indicated are for 10 candidates doing the examination at the same time or 20 candidates in two sessions. For more or less candidates, the quantities may be adjusted accordingly.
2. The centres **must** ensure that **all** the materials, tools and equipment are readily available before arrival of the examiner.
3. Candidates are expected to use the same tools, equipment and materials they have used during training. New and unfamiliar tools, materials or equipment may have negative effects.
4. Centres are reminded that candidates will lose marks if they fail to complete the examination due to lack of specified materials, tools or equipment.
5. Schools are expected to have standard tools in a normal workshop setup as per tools and equipment list in the syllabus.



**These instructions consist of 2 printed pages.**



	Material Description	Quantity
1.	Plastic moulded CCU 4-way with fuses or MCB's	6
2.	Drilling machine (Pedestral)	1
3.	Breadboard (60 mm × 170 mm)	6
4.	Vertical wooden board (1.2 m × 1.2 m)	6
5.	Power supply (variable) 0– 30 V d.c.	6
6.	Sheet metal gauge 30 (180 mm × 210 mm)	Enough
7.	Milliammeter 0 – 30 mA	6
8.	Tin snips	Enough
9.	Deep pattress boxes	6
10.	Hand grip pliers	Enough
11.	Folding bars	Enough
12.	Masking tape	Enough
13.	Connecting wires	Enough
14.	Jumper wires	Enough
15.	Wood screws ¼” and ½”	Enough
16.	Tack nails	Enough
17.	Buckle clips (25 mm)	Enough
18.	Insulated stapples	Enough
19.	2.5 mm <sup>2</sup> PVC sheathed cable TWE	Enough
20.	SPST toggle switch	6
21.	Bench vice	Enough
22.	Assorted files	Enough
23.	Twist drill (∅ 3 mm)	3
24.	Microammeter (0 – 100 μA)	6
25.	Voltmeter (0 –30 A)	6
26.	Potentiometer 10 kΩ	6
27.	Scriber	Enough
28.	Steel rule	Enough
29.	Centre pinch	Enough
30.	Engineers square	Enough
31.	Resistors ½ W each:	6
	470 Ω	6
	2.2 kΩ	6
	100 Ω	6
	330 Ω	6
	1 kΩ	6
	680 Ω	6
	390 Ω	6
32.	Soldering iron 25 W	Enough
33.	Ball pein hammer	Enough
34.	Electrician tool kit	1

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