

THE KENYA NATIONAL EXAMINATIONS COUNCIL  
Kenya Certificate of Secondary Education

450/2  
Inst. Sch.

— **AVIATION** —  
**TECHNOLOGY** —  
**(PRACTICAL)**

**Paper 2**



**Apr. 2021**

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**INSTRUCTIONS TO SCHOOLS**

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 centre **must** ensure that **all** materials, tools and equipment are readily available before the 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 hinder satisfactory performance of the task.
4. Centres are reminded that candidates will lose marks if they fail to complete the examination due to lack of specified materials, tools and equipment.
5. Schools with more than 20 candidates are advised to prepare at least two fully equipped workshops and double the materials requested.

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**These instructions consist of 3 printed pages.**



Item	Item Description	Quantity	Remarks
1.	Plain paper A4 paper	1	Ream
2.	Pencil HB and 2B	1	per candidate
3.	Eraser	1	per candidate
4.	Galvanised sheet 80 × 50 × 1.5 mm	1	per candidate
5.	Galvanised sheet 60 × 40 × 1.5 mm	1	per candidate
6.	Aluminium snap head rivets diameter 3.0 mm	10	pkts
7.	Twist drill 3 mm diameter	2	per candidate
8.	Pipe 12.5 mm or rod 150 mm long	1	per candidate
9.	Wooden block	1	
10.	Rags	10	kg
11.	Wire twister	1	ea
12.	Graphite grease	500	gm
13.	Set of appropriate screw drivers	2	sets
14.	Set of appropriate ring spanners	2	sets
15.	Split type wheel hub	2	used aircraft type
16.	Oil paint – red	100	ml
17.	Oil paint – green	100	ml
18.	Oil paint – white	100	ml
19.	Oil paint – blue	100	ml
20.	Gyroscope	1	
21.	Bourdon tube	1	
22.	Bellow type ASI	1	
23.	Bicycle hand pump	1	
24.	Plastic pipe 10 mm dia 2 m long	1	
25.	Tapered roller bearing	1	
26.	Depth gauge	1	
27.	Vernier calliper	1	
28.	Micrometer 0 – 50 mm	1	
29.	Bevel gauge	1	
30.	Ratchet type torque wrench	1	
31.	Spur type engine oil pump	2	
32.	1 single disc brake assembly	2	
33.	A set of appropriate open-end spanners	2	

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Item	Item Description	Quantity	Remarks
34.	A set of box spanners	2	
35.	Internal circlip removers	2	
36.	External circlip removers	2	
37.	Aerial cable	10	metres
38.	Aerial male connectors	12	roll
39.	Soldering wire	2	tin
40.	Soldering flux	100	gms
41.	Wire stripper	2	
42.	Soldering iron 240 v AC	2	
43.	Soldering iron DC	2	
44.	Soldering iron sucker	2	
45.	Soldering iron stand	2	
46.	Battery 12 volts	1	
47.	Composite piece 100 × 100 mm	2	
48.	Bolt size 30 coarse thread	2	
49.	Pine wood 50 cm × 50 cm × 50 cm	1	
50.	Mahogany wood 50 cm × 50 cm × 50 cm	1	
51.	Glass jar – 500 – ml	2	
52.	Graduated jar 500 ml –	2	
53.	Electronic weighing balance 0 – 1000 gms	1	
54.	Snip pliers	2	
55.	Feeler gauge	2	

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