

445/2 SG  
METALWORK  
Paper 2  
(PROJECT)  
May - October 2022  
SCORING GUIDE



**THE KENYA NATIONAL EXAMINATIONS COUNCIL**  
Kenya Certificate of Secondary Education  
METALWORK  
Paper 2  
(PROJECT)

**SCORING GUIDE**  
(CONFIDENTIAL)

**PROJECT: TISSUE PAPER HOLDER**

**CANDIDATE'S NAME:** \_\_\_\_\_

**INDEX NUMBER:** \_\_\_\_\_

**NAME OF CENTRE:** \_\_\_\_\_

**INSTRUCTIONS FOR EXAMINER'S USE ONLY**

1. GENERAL TOLERANCES:  
± 0.2 mm unless otherwise stated.
2. MARKING GUIDE
  - (a) Within tolerance - award full mark
  - (b) Up to 1.5 x tolerance - award half mark
  - (c) Outside 1.5 x tolerance - award no mark
3. All dimensions are in millimetres unless otherwise stated.

CANDIDATE'S SCORE

PROJECT MARKED OUT OF

100

**This scoring guide consists of 4 printed pages.**

PART	AREAS TO BE MARKED	MAXIMUM MARKS	MARKS AWARDED
<b>PART 1 - BASE</b>	Dimensions: 138 (1 x 2) 36 (1 x 2) 18 (1 x 2) 4 (1 x 2) Quality of holes (2 x 1) Squareness (4 x 1)	 2 2 2 2 2 4	
	<b>Sub-total</b>	<b>14</b>	
<b>PART 2 - STAND (2 OFF)</b>	Dimensions: 70 (2 x 2) 62 (2 x 1) 36 (2 x 1) 85° (2 x 2) Ø 8 (2 x 1)	 4 2 2 4 2	
	<b>Sub-total</b>	<b>14</b>	
<b>PART 3 - BOLT</b>	Dimensions: 134 (1 x 2) 116 (1 x 1) 10 (1 x 2) Ø 12 (1 x 2) Ø 8 (1 x 2) Threading Quality of threading Quality of turning Quality of facing	 2 1 2 2 2 1 2 3 2	
	<b>Sub-total</b>	<b>17</b>	

PART	AREAS TO BE MARKED	MAXIMUM MARKS	MARKS AWARDED
<b>PART 4 - NUT</b>	Dimensions: 12 (1 x 2) 8 (1 x 1) Ø 12 (1 x 2) Threading Quality of threading Quality of facing	 2 1 2 1 1 1	
	<b>Sub-total</b>	<b>8</b>	
<b>PART 5 - COVER (2 OFF)</b>	Dimensions: Ø 36 (2 x 2) Ø 8 (2 x 1) Position of holes (2 x 1)	 4 2 2	
	<b>Sub-total</b>	<b>8</b>	
<b>PART 6 - CYLINDER</b>	Dimensions Ø 36 (1 x 2) 106 (1 x 2) Quality of folding Brazing butt joint Quality of brazing	 2 2 4 3 3	
	<b>Sub-total</b>	<b>14</b>	
<b>SUB-ASSEMBLY</b>	1. Bolt to nut 2. Cylinder to cover Gas welding (2 x 2) Quality of gas welding (2 x 2) Alignment of holes	 1  4 4 1	
	<b>Sub-total</b>	<b>10</b>	

PART	AREAS TO BE MARKED	MAXIMUM MARKS	MARKS AWARDED
	3. Base to stand Dimensions 112   (1 x 1) 10    (1 x 1) Arc welding   (2 x 2) Quality of arc welding   (2 x 2) Alignment of holes	   1 1 4 4 1	
	<b>Sub-total</b>	<b>11</b>	
<b>FULL ASSEMBLY</b>	Functionality Stability Quality of finishing Identification No.	 1 1 1 1	
	<b>Sub-total</b>	<b>4</b>	
	<b>GRAND TOTAL</b>	<b>100</b>	