

**745/1  
TECHNOLOGY  
& DESIGN  
Paper 1  
2024**



**UGANDA NATIONAL EXAMINATIONS BOARD**

**Uganda Certificate of Education**

**TECHNOLOGY AND DESIGN**

**Paper 1**  
Theory

# ***SCORING GUIDE***

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S/N	ELEMENT OF CONSTRUCT	BASES OF ASSESSMENT	SUCCESS CRITERIA	
			DESCRIPTION	SCORE
1.	Understand materials, tools and machines plus health and safety practices associated with them	Provides a focused introduction	<ul style="list-style-type: none"> <li>• Provides a relevant introduction identifying the problem to be solved               <ul style="list-style-type: none"> <li>▪ <i>Leaking roof</i></li> <li>▪ <i>Fractured structural member</i></li> <li>▪ <i>Attack from insects</i></li> </ul> </li> </ul>	Identifying <ul style="list-style-type: none"> <li>▪ 2-3 problems - 2 scores</li> <li>▪ 1 problem - 1 score</li> <li>▪ No problem/No response - 0 score</li> </ul>
		Tools mentioned	In the explanation, mentions tools to be used e.g. <ul style="list-style-type: none"> <li>• <i>Hammer</i></li> <li>• <i>Saw</i></li> <li>• <i>Paint brush</i></li> <li>• <i>Tape measure</i></li> <li>• <i>Pincers</i></li> <li>• <i>Ladder/scaffoldings</i></li> </ul>	Mentioning: <ul style="list-style-type: none"> <li>• 3 and above tools - 2 scores</li> <li>• 1 -2 tools – 1 score</li> <li>• no mention – 0 score</li> </ul>
		Materials mentioned	In the explanation, mentions materials to be used e.g. <ul style="list-style-type: none"> <li>• <i>Structural members(Timber/Steel)</i></li> <li>• <i>Fasteners (Nails/Bolts/Brackets/Hoop iron)</i></li> <li>• <i>Roof cover</i></li> <li>• <i>Preservatives</i></li> </ul>	<ul style="list-style-type: none"> <li>• 3 and above Materials- 2 scores</li> <li>• 1 -2 materials – 1 score</li> <li>• no mention – 0 score</li> </ul>

S/N	ELEMENT OF CONSTRUCT	BASES OF ASSESSMENT	SUCCESS CRITERIA	
			DESCRIPTION	SCORE
		Procedures	Exhaustive procedure description 1. <i>Getting ready with PPE and securing the area of work.</i> 2. <i>Explaining how to remove roof covering material.</i> 3. <i>Explaining how to remove affected structural roof members</i> 4. <i>Replacing the affected structural roof members.</i> 5. <i>Applying preservatives</i> 6. <i>Replacing the roof covering material.</i>	<ul style="list-style-type: none"> <li>• 4 above procedures - 3 scores</li> <li>• 2 -3 procedures – 2 score</li> <li>• 1 procedure – 1 score</li> <li>• No procedure described/ no mention - 0 score</li> </ul>
		Conclusion	Convincing conclusion related to the scenario No conclusion	1 score 0 score
2	Understand energy, electricity and electronics.	Provides a focused introduction	<ul style="list-style-type: none"> <li>• Provides a relevant introduction identifying the problem to be solved               <ul style="list-style-type: none"> <li>▪ <i>HEP is unreliable</i></li> <li>▪ <i>Environmental degradation</i></li> </ul> </li> <li>• Irrelevant introduction/ No introduction</li> </ul>	<ul style="list-style-type: none"> <li>• 1 – 2 problems – 1 score</li> <li>• No identification - 0 score</li> </ul>

S/N	ELEMENT OF CONSTRUCT	BASES OF ASSESSMENT	SUCCESS CRITERIA										
			DESCRIPTION	SCORE									
		Source and Forms of energy	In the explanation, mention sources and forms of energy <ul style="list-style-type: none"> <li>• <i>Sun - Solar energy</i></li> <li>• <i>Heat - Thermal energy</i></li> <li>• <i>Wind - Wind energy</i></li> <li>• <i>Waste - Biogas</i></li> </ul>	2 and above – 2 scores 1 mention – 1 score No mention – 0 score									
		Description	Exhaustive description of any 2 forms of energy systems, components and their functions. <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Energy system description e.g. solar</th> <th>Components of the system(Max 3)</th> <th>Function of each component</th> </tr> </thead> <tbody> <tr> <td>1 score</td> <td>1 score</td> <td>1 score</td> </tr> <tr> <td>1 score</td> <td>1 score</td> <td>1 score</td> </tr> </tbody> </table>	Energy system description e.g. solar	Components of the system(Max 3)	Function of each component	1 score	For each energy system: (5 – 7) - 3 scores (3 - 4) - 2 scores (1 – 2) – 1 score No mention – 0 score					
Energy system description e.g. solar	Components of the system(Max 3)	Function of each component											
1 score	1 score	1 score											
1 score	1 score	1 score											
		Conclusion	<ul style="list-style-type: none"> <li>▪ Relating 2 forms of energy systems to the above scenario</li> <li>▪ Relating 1 form of energy system to the scenario</li> <li>▪ No relating at all</li> </ul>	2 scores 1 score 0 score									