



KASNEB COMPUTER BASED EXAMINATIONS (CBE) CENTRE READINESS CHECKLIST

The checklist guides the resources required for the online KASNEB examinations. The objective of this checklist is to guide on the minimum ICT infrastructure requirements for an examination centre to conduct Computer Based Examinations.

Centre Name:	
Centre Code:	
County:	
Town:	
Centre Rep	
Contact info	

Exam Room and Computer Laboratory(s) Specification		Capacity	Notes	
1	Minimum Specification of Exam room/Computer laboratories.	<ul style="list-style-type: none"> - Structured cabling with power outlets - Network switch with at least 100mbps port speed supported by a UPS - Computing device Desktop/Laptops/ 	★	
	Conduciveness of Lab	<ul style="list-style-type: none"> - Proper lighting - Adequate spacing between computers - Good air circulation - Neat cabling 	★	
2.	<p>Wi-Fi Coverage In case a Test Centre does not have a computer lab for deployment of CBE examination, Wi-Fi network can be utilized for conducting CBE examination. Here an already existing Wi-Fi infrastructure can be used or a new installation can be deployed. If this option is pursued, power outlets are required to connect students' devices.</p>	<ul style="list-style-type: none"> • Distance between access point is 150ft • At least 50 connections per access points • 802.11n and 802.11ac • One power outlet per candidate • Speed test of Uplink 1mbps/Downlink 8mbps 	<p><u>Total Number of Access point:</u></p> <p><u>Estimate no. of Wi-Fi users:</u></p> <p><u>Speed test:</u> Uplink: ----- Mbps Downlink: ----- Mbps</p>	★

Exam Room and Computer Laboratory(s) Specification		Capacity	Notes	
3.	Computer specification (desktop/laptop)	Hardware <ul style="list-style-type: none"> - Core 2 Duo - CPU Processor 3.0Ghz - 2gb RAM - 1024*768 - Camera - Power Generator (Automatic upon power loss and can last for at least two days) - Word 2016 - Chrome, Mozilla Firefox, - Adobe Reader - Windows 7 - Antivirus 	Number of computers: Speed Memory Camera Access to CBE platform: Availability of UPS: Availability of Power Generator: Word 2010 Browsers Available Operating system Antivirus	-
Network and Internet Specifications				

1.	Internet Backbone - The exam centre is expected to have internet connectivity either cable or wireless.	<ul style="list-style-type: none"> - Fixed or wireless - At Least 20 mbps for a population of 50 - 100 users - ISP Provider 	ISP Provider <u>Link Type</u> (Fixed/Wireless if available):	★
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Exam Room and Computer Laboratory(s) Specification		Capacity	Notes
		Fixed and wireless <u>Link Bandwidth in mbps if available:</u> <u>Speed test:</u> Uplink: ---- Mbps Downlink: --- Mbps Wireless Uplink: --- Mbps Downlink: ---- Mbps	

3.	<p>Availability of Backup internet connection In case the primary link drops it's important to have a backup internet connection.</p>	<ul style="list-style-type: none"> - Fixed or wireless - At Least 20 Mbps for a population of 50 - 100 users 	<ul style="list-style-type: none"> - Assessor to run a speed test on most stable mobile (refer appendix) <p><u>Availability of Backup Link</u></p> <p><u>Link Type</u></p> <p><u>Link Bandwidth in mbps if available:</u></p> <p>Mbps</p> <p><u>Speed test if available:</u></p>	★
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Exam Room and Computer Laboratory(s) Specification		Capacity	Notes	
2.	<p>Internet Security</p>	<ul style="list-style-type: none"> - Basic firewall or routers 	<p>Firewall Brand:</p>	

4.	Mobile Data Coverage	<ul style="list-style-type: none"> - Availability of mobile network coverage (Telkom) - Speed test 	<p>★ Assessor to run a speed test on most stable mobile (refer appendix)</p> <p><u>Speed test if available:</u></p> <p>Safaricom Uplink: -- Mbps Downlink: -- Mbps</p>	
Availability of power				
1	<p>a</p> <p>The Computer Based Examination (CBE) relies heavily on clean and stable power supply. Disruption of the primary power can negatively affect the examination thus examination centres must have a main power source and alternative power supply for smooth running of the Computer Based Examination</p>	<ul style="list-style-type: none"> - Connectivity to the main power grid (Kenya Power) - The power changeover automatically switches with minimal interruption 	<p><u>Power capacities</u></p> <p><u>Main:</u></p> <p>Alternative: Solar source backup -</p>	

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(CBE).		

ICT Support Services				
1	. ICT support service is critical in the success of the Computer Based Examination (CBE). It's a requirement for an examination Centre to have a first level ICT support during the examination	- Dedicated staff for the period of the examinations.	<u>Qualification: Degree in ICT</u> <u>Number of ICT Support staff:</u>	!
CCTV				
1	. C CCTV Coverage C T	- No minimum requirements	-	•

CHECKLIST FILLED BY: SIGN DATE CHECKLIST FILLED BY: SIGN DATE CHECKLIST

FILLED BY: SIGN DATE

APPENDIX – SPEED TEST INSTRUCTIONS

1. While connected to the appropriate link (Wireless, Mobile and fixed) 2. Type in the address into internet browsers <https://www.speedtest.net/> click Go 3. The site will run a speed test, then display results.
4. Please note and record the values in the table above
5. { DOWNLOAD Mbps (e.g. 20Mbps) UPLOAD Mbps (e.g. 5Mbps)}