



# ***Technical specification: Professional Level remotely invigilated exams***

The Remote Invigilation system requires students to have **both**:

- a Microsoft Windows PC / Apple Mac / Linux device; and
- a mobile device, eg, smartphone.

Requirement	Minimum specification
PC or other hardware specification	<p><b>PC or LAPTOP:</b></p> <ul style="list-style-type: none"><li>• Operating system:<ul style="list-style-type: none"><li>○ PC: The PC operating system should be a version supported by Microsoft. This is currently Windows 10.</li><li>○ Mac: OS X or higher; and Linux: 64-bit Ubuntu 14.04+, Debian8+, openSUSE 13.3+, or Fedora Linux 24+</li></ul></li><li>• Web browser: Latest version of Google Chrome</li><li>• Webcam required: maximum resolution of 1280 X 720 with max frame rate of 30 frames per second</li><li>• Microphone required</li><li>• Audio required</li><li>• Remote Invigilation Google Chrome Plugin</li><li>• Screen minimum size: 13 inch. However, for an optimum experience we recommend a minimum screen size of 17 inch or above. You may use an external monitor but must ensure that your laptop screen is mirrored, or is off/blacked out.</li><li>• Keyboard: wired or wireless</li></ul> <p><b>MOBILE DEVICE:</b></p> <ul style="list-style-type: none"><li>• Operating system: Android: 4.1 or higher or Apple iOS 8.0 or higher</li><li>• Wi-Fi connected smartphone</li><li>• Video resolution must be minimum: 800 X 600 px</li><li>• Remote Invigilation app must be installed</li></ul> <p>Non compatible mobile phones:</p> <ul style="list-style-type: none"><li>• Huawei P30, Samsung Galaxy A3 (2016), Google Pixel 3 and newer are not compatible with the app.</li></ul>

Internet bandwidth	<p>The minimum bandwidth required for the Remote Invigilation session is 2.5Mbps.</p> <p>The recommended bandwidth required for the Remote Invigilation session is 2.8mbps on top of the bandwidth requirements for the exam system.</p> <p>Wi-Fi is supported but we would recommend a fixed internet connection to the student's device. Tethering to a mobile phone/hot spot is not supported.</p>
Software to be locally installed	<p>None. The Remote Invigilation Google Chrome Plug-in will be installed automatically when the student accesses the log in page. The student will then need to give permission for the installation.</p> <p>On a mobile device the Remote Invigilation app must be installed.</p>