

TECHNOLOGY REQUIREMENTS FOR STUDENT WORKSTATIONS

(1) Requirements for Student Workstations

The software listed below has been tested and certified to work correctly with our Online Assessment System – Test Delivery Client (TDC). Older versions of the applications listed below may continue to work, even though they are no longer supported by DRC/CTB. More recent versions of the applications than the versions listed here may also work but, they have not been tested and certified by DRC/CTB at this time.

PC HARDWARE / SOFTWARE		
1	Hardware & Memory	Minimum: - 1.3 GHz processor - 2 GB of memory - 1 GB disk space available
2	Operating System	Windows 7, Windows 8, Windows 8.1, Windows 10
3	Additional Software	- Adobe® AIR® 20 - Adobe® Flash® Plug-in 20 (Required for TN3 and TABE Online) - If no version of JRE resides on the workstation, install the current version
4	Web Browser	- Firefox 44 (or latest) or IE10 or 11

MAC HARDWARE / SOFTWARE		
1	Hardware & Memory	Minimum: - 1.8 GHz Intel processor - 2 GB of memory - 1 GB disk space available
2	Operating System	OS 10.8, 10.9, 10.10.5 - Intel
3	Additional Software	- Adobe® Flash® Plug-in 20 (Required for TN3 and TABE Online) - Adobe® AIR®
4	Web Browser	- Safari® 6, 7, 8

HARDWARE/SOFTWARE – Common to all Machines and Operating Systems		
1	Display Monitor	- Set to minimum of 1024 x 768 pixels - Minimum color display: 256 colors (8-bit)
2	Internet Access	- High-speed internet connection (see below)
3	Peripherals	- Keyboard (should not have shortcut hot keys enabled) - Mouse

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NETWORK CONNECTIVITY		
4	Bandwidth	<ul style="list-style-type: none"> - Minimum 1.5 Mbps upload and download - T1, high-speed cable or high-speed DSL required for every 50-100 concurrent users
5	Firewalls	Port 80 and 443 must be open
6	Proxy Servers	<ul style="list-style-type: none"> - Dynamic pages are not to be cached - Allow both HTTP and HTTPS traffic for *.ctb.com - Exclude *.ctb.com addresses from filters—<i>highly recommended</i>

SECURITY AND OTHERS		
7	Instant Messaging	Disable instant messaging and e-mail notification
8	Screensavers	Disable screen savers and power savers
9	System Scans	Disable anti-virus system scans and/or auto-updates set to run when testing will not be taking place
10	System Restore	System restore utilities, e.g. Deep Freeze, need to be disabled during setup and testing, so that new data remains in place after system reboot
11	Remote Desktop	Disable Remote Desktop Access
12	Web Content Filtering	Exclude *.ctb.com from web filtering
13	Other	Any software that runs automatically on the workstation, but is not explicitly listed here, should be disabled (turned off) while the workstation is being used for testing.

Note 1: Software applications that would interfere with secure, locked-down browser application must be disabled/turned off (not uninstalled); they must be set to run outside the testing window for security.

Note 2: You may be required to “allow” or activate Java and Flash for use with TDC content. This request will appear in a pop-up window or in a message posted just below the browser tool bar.

CONTENT PRE-POSITIONING

For best performance and results, always download and pre-position content before testing. This takes only a few minutes per workstation, but can avoid long delays and possible interruptions when the students log in to their tests.

See the “Online Installation Guide” for details on downloading and prepositioning content.