

Testing Program: CLEP®	Test Delivery Requirements	Version: 9.0
		Date: 5/28/2019

Computer Requirements:

The **standard** configuration requires a minimum of three computers to deliver a test.

1. **Administrative Station:** Required for candidate check-in and other administrative tasks.
2. **Local Server/Cache Proxy (LSCP):** Required for storing test delivery information and temporary storage of candidate results.
3. **Testing Workstations:** Required for delivering tests (one testing station per candidate).

The **limited** configuration allows you to host the Administrative Station and LSCP applications on one computer and the Testing Workstation on the second computer although this is valid only if you are testing one test-taker at a time. In all other situations, both the Administrative Station and the LSCP applications **MUST** run on separate computers.

System Requirements:

CLEP Supported Operating Systems		
Operating Systems	Windows 8.1 (32 and 64-bit)	Windows 10 (32 and 64-bit)
Notes	<ul style="list-style-type: none"> ➤ The operating system should reside on and boot from the computer's local hard disk. Virtual machines and thin clients are not supported. ➤ Microsoft Server Operating System, Linux and Macintosh/iMacs are NOT supported or approved for CLEP test delivery system ➤ Windows 7 is NOT supported after December 31, 2019 	

Computer Hardware Specifications		
	Local Server/Cache Proxy (LSCP) up to 40 candidates	Testing Station or Administrative Station
Processor:	Intel® Core™ 2 Quad 2.4 GHz or equivalent *(Benchmark = 3000 or higher)	Intel® Core™ 2 Quad 2.4 GHz or equivalent *(Benchmark = 3000 or higher)
Minimum Installed Memory:	4 GB	4 GB
Minimum Free Memory:	2 GB	1 GB
Minimum Free Disk Space:	4 GB	2 GB
Other Specifications: Administrative System and Testing Stations		
Display Adapter	1024x768 resolution, with 32-bit color depth/65, 536 colors	
Display Monitor Aspect Ratio	Must support an aspect ratio of 4:3	
Display Monitor Screen Size	LCD/LED: 15-inch or higher	
Sound Card	44.1 KHz (or better) sample rate	
ZoomText Software Support	Graphics card with support for DirectX 11 or above and 1 GB dedicated video memory	
Browser	Microsoft Internet Explorer® (IE) v11 and Edge	

***How to Determine Processor Benchmark:** The **Passmark CPU Mark** website allows you to determine whether a certain computer processor meets the ETS benchmark specification. Visit the Passmark website at http://www.cpubenchmark.net/cpu_list.php and search for your processor (CPU) by name to determine its Passmark score. The first column on the screen displays the CPU name, and the second column displays the Passmark CPU Mark (benchmark) score. If your processor has a score equal to or higher than the score listed in the above table, then your processor is considered to meet the ETS requirement.

Software Installation Requirements:

Test centers must visit the Unify download page <https://ibtprod.ets.org/ibt/unifyinfo.jsp> to download and install Unify software components. You must download the software installers onto your computer hard drive first and then run them "**As Administrator**". Reboot the computer after the installation is complete.

The required components are:

- a) **Microsoft .Net version 4.5 or higher:** All testing computers must have the version 4.5 or higher installed. The Microsoft .Net check link available on the same page can be used to verify that the required version is installed. The download links allows you to install version 4.6.1 from the same page.
- b) **Unify required installers:** Download and install the appropriate Unify software component on the Local Server/Cache Proxy, Admin Station and Workstation computers.
Administrative privileges are required to install and operate the software.
- c) **ZoomText:** ZoomText software is required for screen magnification and modifiable colors, which are available as testing accommodations for candidates with disabilities. It is not used for standard testing. To install the ZoomText software at a CLEP Unify center, use the ZoomText download link on the Unify Test Center Setup page at <https://ibtprod.ets.org/ibt/unifyinfo.jsp>. This version of the ZoomText software is compatible with CLEP supported operating systems mentioned above. It requires a graphics card with support for DirectX 11 or above and 1 GB dedicated video memory.
- d) **Adobe® Reader** (available at adobe.com): Adobe® Reader must be installed on the Administrative Station computer to allow viewing and printing of score reports.

Local Area Network and Internet Connectivity:

All testing computers should:

- Reside on a Local Area Network (LAN) in the same subnet allowing communications without blocking of any ports.
- Connect to the Internet via a broadband Internet connection such as DSL or better allowing network communications to the servers at ETS (ets.org domain) via TCP port 80 and 443 with no content filtering of the network traffic.

Note: Please review the **Test Center Technical Configuration Guidelines** document posted on the College Board website for the guidelines and additional requirements related to adding a list of Unify applications to the whitelist of the virus scan suite applications, network/desktop firewalls or other security configurations such that they are not blocked.