

This document describes the network and hardware configurations recommended or needed to work with Apex Learning solutions based on the solution and the device being used. Apex Learning solutions include:

- Comprehensive Courses
- Tutorials
- Apex Learning Virtual School (ALVS)
- AP* Exam Review (APER)
- State Exam Prep (EP)

Network Configuration

Bandwidth

A suitable Internet connection is required. This connection must have appropriate bandwidth taking into account:

- The number of concurrent users
- Other network applications (e.g. VOIP)
- Current bandwidth utilization
- Varying usage habits

Access

Firewalls, content filters, and other network infrastructure must allow connections to the following ports and domains:

- *.apexlearning.com
- *.apexvs.com
- correlation.edgate.com
- Port TCP/80 (all listed domains)
- Port TCP/443 (all listed domains)
- A defined set of 3rd party URLs (provided upon request to Support)

HTTP 1.1 Support

Apex Learning supports HTTP 1.1 (RFC 2616). This protocol is optional, but recommended.

Proxies sending HTTP 1.1 requests must be either compliant or conditionally compliant with RFC 2616. If a non-compliant proxy cannot be made compliant, then connections to Apex Learning courses must either:

- Bypass the proxy
- Use only the HTTP 1.0 protocol

HTTPS Support

Apex Learning supports HTTPS (Hypertext Transfer Protocol Secure) to provide encrypted communication and secure identification.

Content Caching

Cache Setting	Comprehensive Courses, ALVS, APER, EP	Tutorials
Domains that may be cached, but should be refreshed weekly	<ul style="list-style-type: none"> • media.apexlearning.com • assets.apexlearning.com • acecontent.apexlearning.com 	<ul style="list-style-type: none"> • Not applicable
Domains that must NOT be cached	<ul style="list-style-type: none"> • apexvs.com • courses.apexlearning.com 	<ul style="list-style-type: none"> • apexvs.com

Hardware Configuration

Desktop Operating System

OS	Comprehensive Courses, ALVS, APER, EP	Tutorials
Microsoft Windows 7	Supported	Supported
Microsoft Windows 8	Supported	Supported
Microsoft Windows 10	Supported	Supported
Apple Mac OS X 10.9 (Mavericks)	Supported	Supported
Apple Mac OS X 10.10 (Yosemite)	Supported	Supported
Apple Mac OS X 10.11 (El Capitan)	Supported	Supported

Web Browser

Web Browser	Comprehensive Courses, ALVS, APER, EP	Tutorials
Microsoft Internet Explorer 11	Supported	Supported
Google Chrome 46 or higher	Supported	Supported
Mozilla Firefox 42 or higher	Supported	Supported
Apple Safari 8.0 or higher	Supported	Supported

Tablet Device Operating System

The following operating systems are supported on tablet devices using native browsers only.

OS	Comprehensive Courses, ALVS, APER, EP	Tutorials
iOS 4 or higher	Not supported	Supported
Android 4.1 (Jelly Bean) or higher	Not supported	Supported
Microsoft Windows 8	Supported	Supported
Chrome OS	Supported	Supported

Additional Recommendations and Requirements

Requirement	Comprehensive Courses, ALVS, APER, EP	Tutorials
Display Resolution & Color Depth	Resolution <ul style="list-style-type: none"> 960 x 768 minimum 1024 x 768 recommended min Color Depth <ul style="list-style-type: none"> 8 bits (256 colors) minimum 16 bits (Highcolor) recommended 	Resolution <ul style="list-style-type: none"> 960 x 768 minimum 1024 x 768 recommended min Color Depth <ul style="list-style-type: none"> 8 bits (256 colors) minimum 16 bits (Highcolor) recommended
Required Browser Plug-ins	<ul style="list-style-type: none"> Adobe Reader 6.0 or higher Adobe Flash Player 9.0.115 or higher 	<ul style="list-style-type: none"> Not applicable
Audio	<ul style="list-style-type: none"> Speakers or headphones Microphone (<i>World languages only</i>) Audio recording support (<i>World languages only</i>) 	<ul style="list-style-type: none"> Speakers or headphones
Print (as appropriate)	<ul style="list-style-type: none"> Printer Scanner Fax Multipage TIF Viewer 	<ul style="list-style-type: none"> Printer
Word Processing	<ul style="list-style-type: none"> Software that can open, modify, and save documents in Rich Text Format (RTF) 	<ul style="list-style-type: none"> Not applicable

Additional Information

For additional help with network or hardware configuration, please contact Apex Learning Support at 1-800-453-1454 or support@apexlearning.com.

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