

CYBER TRAIN – TECHNOLOGY OVERVIEW

Cyber Train is a 100% web-based training management solution that takes advantage of Microsoft SQL Server 2000 or 2005, HTML, and .NET 3.5 technologies to provide a stable, efficient recruiting experience. Cyber Train can be configured on two different servers (one web server and one SQL Server), or can be installed exclusively on one server. Regardless of the final configuration, the requirements are as follows.

WEB SERVER

- Windows 2000/2003/2008 Server with IIS 6.0 or higher installed and *not* installed as a domain controller. Microsoft Windows Small Business Server (SBS) is *not* supported. Windows NT 4.0 is *not* supported.
- Microsoft .NET Framework 3.5 Service Pack 1

SQL SERVER

- Windows 2000/2003/2008 Server. Microsoft Windows Small Business Server (SBS) is *not* supported. Windows NT 4.0 is *not* supported.
- SQL Server 2000 with SP4 installed (or higher), SQL Server 2005 (Standard or Enterprise editions only) or SQL Server 2008. MSDE is *not* supported

CYBER TRAIN USER MACHINES

- All client machines must have Internet Explorer 7.0 or higher installed or FireFox 3.0 or Safari 4.0

HARDWARE RECOMMENDATIONS

Cyber Train is a very low-transaction application and therefore requires minimal hardware configurations by today's standards. As with any web-based or SQL server-based application, however, your necessary hardware depends on which other applications share the same servers.

If Cyber Train were the only web application on your web server, the web server would require at least a 1.5GHz single processor and 2GB of RAM. The amount of hard drive space needed is less than 30MB.

If Cyber Train were the only application using your SQL Server, it would require at least a 2GHz single processor and 2GM of RAM. Upon installation, Cyber Train creates a database that uses 150MB of hard drive space. The database will grow automatically as needed but can hold at least 20,000 students before needing to grow.

SUMMARY OF TECHNOLOGY INVOLVED

PRIMARY LANGUAGE

All web pages in Cyber Train are written using standard HTML 4.0 coding, server-side .NET Active Server Page (ASPX) technology, and client-side Javascript. ASPX's are the Microsoft-native method for server side scripting and database access (using Active Data Objects (ADO) .NET). Javascript is the industry standard for client-side browser scripting and is used for form validation and simple page redirections.

SMTP

Much of the functionality of Cyber Train depends on automatic emails that are generated during the training management process. These emails are sent via SMTP technology. In order for this to function properly, a working SMTP server must be available that allows relaying from the web server. This SMTP Server Name (or IP address) is entered under **Admin/System Setup** in Cyber Train. Cyber Train's SMTP functionality supports SMTP Authentication and/or changing of the standard SMTP port.