Course Competency

COP2825 Implementing an Internet Server   (4 credits)

Course Description
Students will learn to implement, support, and maintain Internet servers. Both Microsoft and Apache servers are covered. Recommended preparation: Prior knowledge of operating systems and managing network resources is recommended. A .S. degree credit only. Laboratory fee.

Course Competency	Learning Outcomes
Competency 1:demonstrate an understanding of how to install an Internet server	1. Communication 2. Computer / Technology Usage
1. Listing the hardware and software requirements needed to install an Internet server. 2. Planning an Internet Server installation. 3. Installing the product and verifying it is installed. 4. Explaining the various options presented during Setup. 5. Ensuring support for Internet services : File Transfer Protocol (FTP), telnet, World Wide Web (WWW), and database connections. 6. Describing the state of the server and changes that occur after the installation. 7. Assigning administrative privileges.	
Competency 2:demonstrate an understanding of the architecture associated with Internet servers	1. Communication 2. Computer / Technology Usage
1. Describing the architecture of Internet servers. 2. Explaining how the various Internet services relate to the architecture of the Internet servers.	

Competency 3: demonstrate an understanding of the File Transfer Protocol(FTP) service	1. Computer / Technology Usage
1. Describing the architecture of FTP service. 2. Indicating the FTP-specific settings in and how to analyze their performance.	
Competency 4: demonstrate an understanding of the World Wide Web (WWW) service	1. Computer / Technology Usage 2. Information Literacy
1. Describing the architecture of the WWW service. 2. Indicating the WWW-specific settings and how to analyze their performance. 3. Using WWW to transfer data between Internet hosts.	
Competency 5: demonstrate an understanding ofsecurity architecture	1. Computer / Technology Usage 2. Information Literacy
1. Describing the security architecture used by Internet server. 2. Describing the available security options. 3. Explaining how performance may be affected by various security options.	
Competency 6: demonstrate an understanding of security features in Windows and Linux	1. Computer / Technology Usage 2. Information Literacy
1. Implementing security features of Windows and Linux. 2. Indicating when the security features of Windows and Linux are appropriate.	
Competency 7: demonstrate an understanding of security features available in Microsoft Information Server	1. Computer / Technology Usage 2. Information Literacy

1. Indicating when the security features of Internet Information Server are appropriate. 2. Implementing security features such as Secure Socket Layer (SSL) and Transport Layer Security (TSL).	
Competency 8:demonstrate an understanding of security features in Apache Internet Server	1. Computer / Technology Usage 2. Information Literacy
1. Indicating when the security features of Apache are appropriate. 2. Implementing security features such as SSL and TLS.	
Competency 9:demonstratean understanding of how to perform tuning and optimizing techniques	1. Computer / Technology Usage
1. Describing the purpose of virtual directories. 2. Describing the purpose of virtual servers. 3. Creating and using virtual directories. 4. Creating and using virtual servers.	
Competency 10:demonstratean understanding of how to perform tuning and optimizing techniques	1. Computer / Technology Usage
1. Monitoring and interpreting performance data about an Internet server site. 2. Indicating what registry settings affect Windows Internet Information Server. 3. Maintaining a log for tuning purposes.	

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