Course Prefix and Number: ITN 231  
Credits: 4

Course Title: Desktop Virtualization

Course Description:  
Explores the concepts and capabilities of desktop and application virtualization with a focus on the installation, configuration, and management of the virtual desktop and application infrastructure. Course Prerequisites: ITN 111. Lecture 4 hours per week.

General Course Purpose:  
Prepares students to install, configure, and manage a virtual desktop infrastructure. Can lead to industry certification.

Course Objectives:  
Upon completing the course, the student will be able to:
1. Install and configure desktop virtualization components.
2. Create and manage dedicated and floating desktop pools.
3. Deploy and manage linked clone virtual desktops.
4. Configure and manage desktops that run in local mode.
5. Configure user profiles.
6. Configure secure access to desktops through a public network.
7. Package virtual applications

Major Topics to be Included:
1. Desktop Virtualization Introduction
2. Desktop Virtualization Features and Components
3. Desktop Virtualization Connection Server - Installation and Configuration
4. Personal Computer Over Internet Protocol (PCoIP)
5. Remote Display Protocol (RDP)
6. Universal Serial Bus (USB) Redirection and Multimedia Redirection
7. Desktop Virtualization in Local Mode
8. Thin Clients and Zero Clients
9. Virtual Printing
10. Desktop Virtualization Environment Configuration
11. Users, Sessions, and Policies Management
12. Automated Pools of Desktops Configuration and Provisioning
13. Role-Based Delegated Administration
14. Desktop Virtualization Environment Configuration
15. Linked Clone Configuration and Management
16. Persistent Disk Management
17. Local Mode Desktop Configuration
18. Desktop Virtualization Security Management
19. Network Configuration and Authentication Options
20. User Profile Configuration
21. Command-Line Tools and Backup Options
22. Client Systems in Kiosk Mode
23. Database Back Up and Restoration
24. Desktop Virtualization Performance and Scalability
25. Application Virtualization
26. Virtual Application Package Deployment and Updating
27. Virtual Application Management

Effective Date of Course Content Summary: August 1, 2013