SERVER INFRASTRUCTURE DESIGN  
Course Syllabus

Course Number: NSE-0104  
OHLAP Credit: Yes

OCAS Code: 8185
Course Length: 120 Hours
Career Cluster: Information Technology
Career Pathway: Network Systems
Career Major(s): Network Systems Engineer

Pre-requisite(s): Active Directory Infrastructure

Course Description: This course provides students with the knowledge and skills to design a Microsoft Active Directory service and network infrastructure for a Microsoft Windows Server 2003 environment. The course is intended for systems engineers who are responsible for designing directory service and/or network infrastructures.

Textbooks: Server Infrastructure Design

Course Objectives: A. Demonstrate Knowledge of Server Infrastructure Design

1. Describe the process of designing an Active Directory infrastructure and a network infrastructure that supports Active Directory.
2. Design a forest and domain infrastructure that meets the needs of an organization.
3. Design a site infrastructure that meets the needs of an organization.
4. Design a Group Policy structure that meets the needs of an organization.
5. Design an administrative structure that meets the needs of an organization.
6. Design a physical network structure that supports Active Directory and meets the needs of an organization.
7. Design a Dynamic Host Configuration Protocol (DHCP) structure that supports Active Directory and meets the needs of an organization.
8. Create a design for network connectivity that supports Active Directory and meets the needs of an organization.
9. Design a name resolution strategy that supports Active Directory and meets the needs of an organization.
10. Design a network access infrastructure that supports Active Directory and meets the needs of an organization.

ODCTE Objectives

Teaching Methods: The class will primarily be taught by the lecture and demonstration method and supported by various media materials to address various learning styles. There will be question and answer sessions over material covered in lecture and media presentations. Supervised lab time is provided for students to complete required projects.
Grading Procedures:

1. Students are graded on theory and shop practice and performance.
2. Each course must be passed with seventy (70%) percent or better.
3. Grading scale: A=90-100%, B=80-89%, C=70-79%, D=60-69%, F=50-59%.

Description of Classroom, Laboratories, and Equipment:

Tulsa Technology Center campuses are owned and operated by Tulsa Technology Center School District No. 18. All programs provide students the opportunity to work with professionally certified instructors in modern, well-equipped facilities.

Available Certifications/College Credit:

The student may be eligible to take state, national or industry exam after completion of the program. College credit may be issued from Oklahoma State University-Okmulgee or Tulsa Community College. See program counselor for additional information.

College Credit Eligibility:

The student must maintain a grade point average of 2.0 or better.