NETWORK AND SYSTEM ADMINISTRATION ADVANCED TECHNICAL CERTIFICATE (ATC)

Explore More About This Program: https://cwi.edu/program/network-and-system-administration

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Install and configure a client operating system and demonstrate proficiency in file permissions, disk management, and peer-to-peer user and group management.
- Perform advanced subnetting with CIDR, create and document network addressing schemes, configure routers and switches for small to mediumsized networks, demonstrate the use of configuration tools, analyze data frames, test and troubleshoot network connectivity, and resolve any issues
- · Install and configure a server operating system, network services, directory services, network printing, and group policy objects.
- · Install and configure a Linux operating system, network services within Linux, and file and folder security with Linux.
- Install and configure a secure network environment, identify common security threats, implement cryptography solutions, and install and configure firewalls for perimeter security.
- · Install, configure, and troubleshoot domain controllers, directory services, and file services in an on-premises environment and cloud environment.
- · Install, configure, maintain, and troubleshoot a secure email messaging system and client.
- · Install, configure, maintain, and troubleshoot a database system.
- · Install, configure, and manage a virtual environment using vSphere and Hyper-V to provide high availability.
- Exhibit competencies of Written or Oral Communication (GEM 1 or GEM 2), Mathematical Ways of Knowing (GEM 3), and Social and Behavioral Ways of Knowing (GEM 6).

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