

# CNT4603

## SYSTEM ADMINISTRATION & MAINTENANCE

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### OVERVIEW OF THIS COURSE

A system administrator, or sysadmin, is a person who is responsible for the configuration, maintenance, and reliable operation of computer systems; especially multi-user systems, such as servers. A system administrator must ensure that the availability, performance, resources, and security of the systems they manage meet the needs of the users, without exceeding budgetary constraints. To satisfy these requirements, a system administrator may acquire, install, or upgrade computer components and software; provide routine automation, maintain security

A professional system administrator working at a server rack in a datacenter.

policies; troubleshoot systems, train and/or supervise staff; and provide technical support to an organization.

### COURSE DETAILS

CNT 4603 is a project-oriented course designed to introduce you to the technologies and skills that are required in professional system administration positions. You will complete hands-on projects in the following areas:

- Virtualization scenarios including virtual servers and storage networks.
- Feasibility analysis
- Installing and configuring new hardware and software.
- User account administration.
- Constructing professional quality scripts for automating routine tasks in PowerShell and Python.
- Performing system backups.
- Windows Server 2008 and 2012 administration using Active Directory tools.
- Unix/Linux system administration
- Baselineing and auditing.