CompTIA Server+
SK0-004
Course Syllabus
20.5 Hours

Course Description

CompTIA Server+ is an industry certification designed to certify the skills required of server support professionals who must understand the complicated and varied roles servers perform in today's business. In today's business environment, the extent of reliance on computers and networks means that the need for trained professionals with the skills to manage and administer complicated server installations is growing. Servers in an enterprise control everything from e-mail to storage. Problems with servers can incur large costs for an organization, both in terms of costs of repairs, as well as downtime for employees and interruptions in production. This course covers the objectives for the certification exam:

- **CompTIA Server+ SK0-004**

Learning Objectives

Upon completion of the course, students will understand:

- Purpose and function of certain server form factors, starting with factors of rack mounts, towers, and blade technologies, various server components such as CPU, RAM, bus types, bus channels and expansion slots as well as NICs, hard drives, and different power and cooling components
- Various server roles and requirements, different components that can be installed and configured on a server operating system, and how to use certain access and control methods to administer a server
- Server maintenance techniques, different components and techniques involved with asset management and documentation, and purpose and operation of different virtualization components
- Technologies involved in storing and protecting data, different types of storage media such as optical media, increased reliance on hard disks for permanent, secure data storage, technology behind RAID arrays and the various types of storage architectures
- Methods and concepts involved in physically protecting data, different server hardening techniques, the different types of network security systems and protocols, logical access control methods, how to securely dispose storage and how to implement proper environmental controls in your server room
- IP addressing and network infrastructure services, various ports and protocols, how to install and implement proper cable management procedures, backup strategies and procedures for restoring data, various types of backup such as full, incremental, and differential, common media used for backup such as hard disks and optical media, and disaster planning and the implementation of a disaster recovery plan
- Hardware troubleshooting, common issues that can occur along with their fixes, useful tools that can be employed in the troubleshooting process, and troubleshooting theory and recommended procedures
- Software, storage, network, and security troubleshooting, common issues that can occur along with their fixes, and some of the useful tools that can be employed in the troubleshooting process

Course Format

CompTIA Server+ is a self-paced, online course delivered through the learning management system Skillsoft. The site to access the coursework is su.skillport.com. Login credentials will be provided to you on the cohort launch date. If you do not receive them by the launch date, please check your Spam/Junk folder of your email and/or contact your advisor or O2O program coordinator. Once you have logged into your account, you can locate the coursework by selecting "View My Learning Plan."

Coursework is delivered through videos, tutorials, and tests. No textbooks are required for the course; however, students are encouraged to utilize additional resources to assist with certification preparation. Resource Guides with

lists of supplemental study materials for each certification are available at http://libguide.get-vet.syr.edu/curriculum/.

Course Completion Requirements

CompTIA Server+ coursework is due within 90 days from the assignment date. The course hours listed at the top of the syllabus reflect the time it would take to click through the slides and do not account for taking notes or the end of module tests. You must complete all eight modules listed within Topic 1. Successful completion of a module is marked after you review the lesson videos and score 80% or higher on the end of module tests.

At the beginning of a module, you will be asked to take a pre-test. Scoring 80% or higher on the pre-test signifies competence in the information that will be covered; you will therefore be waived from completing the module. A non-credit certificate of completion will be awarded for successful completion of the coursework.

Industry Certification Requirements

In order for the program to fund your CompTIA Server+ certification exam you will need to meet the Server+ practice exam requirements. Your advisor or O2O coordinator will provide you with access to the practice exam(s) as well as completion instructions once you have finished the coursework.

Support

- For technical support, please contact Skillsoft Support at support.skillsoft.com
- For course content support, please utilize Skillsoft's "Ask My Mentor" tool, located in the left-hand Menu within the module course player
- For program support or questions, please contact your advisor or O2O program coordinator

Course Outline

Topic 1: Server Technology Fundamentals

1.1 CompTIA Server+ SK0-004: Server Architecture

1.2 CompTIA Server+ SK0-004: Server Administration I

1.3 CompTIA Server+ SK0-004: Server Administration II

1.4 CompTIA Server+ SK0-004: Storage

1.5 CompTIA Server+ SK0-004: Security

1.6 CompTIA Server+ SK0-004: Network and Disaster Recovery

1.7 CompTIA Server+ SK0-004: Troubleshooting I

1.8 CompTIA Server+ SK0-004: Troubleshooting II

Revised: 3/29/17