

Certificate in

Network Tech Certification

PROFESSIONAL DEVELOPMENT

THE PROGRAM

The Network Tech Certification (A+, Network+, CCENT, MCP, Security+) consists of training for five highly regarded computer industry certifications. This entry-level certificate is ideal for anyone wanting to start or advance their career in the IT industry. The five courses cover a broad range of introductory topics across crucial areas of computer hardware, software, networking, operating systems and security systems that employers require in today's computer industry.

- Each course includes hands-on training in those skills tested in certification exams from industry recognized leaders such as CompTIA, Microsoft and Cisco
- Courses are designed to be taken sequentially, however, may also be taken individually
- Courses are taught by practicing certified professionals
- Each student is provided with an individual computer workstation

This program is ideal for those seeking work as or improving their skill sets as:

- Network Administrators
- System Administrators
- PC Technicians
- Help Desk Technicians



The Courses	Hours	CEUs
A+	40	4.0
Network+	40	4.0
Cisco Certified Entry Network Technician	40	4.0
Microsoft Certified Professional (MCP)	24	2.4
Security+	32	3.2
Full Program	176	17.6

Register today at www.csufextension.org or 657.278.2611

For more information, contact Mimi Lawson: 657.278.3313, mlawson@fullerton.edu

Cal State Fullerton
university extended education
www.csufextension.org

THE CLASSES

A+ COURSE DETAILS

Prerequisite: This course is designed for individuals with basic computer experience such as familiarity with Microsoft Windows, Microsoft Office and the Internet. The course consists of lecture, hands-on practical application and expert guidance from a certified instructor in which the student will be introduced to a broad range of basic computer hardware and software topics across many platforms. A+ is a valuable industry credential that validates the fundamental level skills and knowledge of computer professionals. Industry and government employers accept A+ as the standard of foundation-level, vendor-neutral computer certification. The curriculum is presented at a university level and pace, and will help you gain the knowledge necessary to pass the A+ Certification exam.

Program Objectives:

Students completing this program will have developed skills in:

- The assembly of basic computer components - what each does and how they work together
- Troubleshooting & configuring computers running Microsoft Operating Systems

NETWORK+ COURSE DETAILS

Prerequisite: This course is designed for individuals who have the A+ certification or equivalent experience. The Network+ course prepares individuals for a career in the administration and support of computer networks across all platforms. Network+ topics include: network troubleshooting, TCP/IP, network operating systems, network installation and upgrading, managing user accounts and passwords, remote access and administration, and fault tolerance and disaster recovery. The course covers the features and functions of networking components, and the knowledge and skills needed to install, configure and troubleshoot basic networking hardware, protocols and services. Additional topics covered include: technical ability in the areas of media and topologies, protocols and standards, network implementation, network support, new technologies such as wireless networking and gigabit Ethernet. You will gain knowledge necessary to pass the Network+ Certification exam.

Program Objectives:

Students completing this program will have developed skills in:

- The basics of computer networking, network protocols and operating systems
- VPN and other network remote access
- Computer disaster recovery plans
- Network utilities to troubleshoot
- Data centers

CISCO CERTIFIED ENTRY NETWORK TECHNICIAN (CCENT) COURSE DETAILS

Prerequisite: none. The hands-on Cisco Certified Entry Network Technician (CCENT) course will help you develop the skills and knowledge to become an entry-level hardware and network technician. Topics will include networking fundamentals; connecting to a WAN; basic security and wireless concepts; routing and switching fundamentals; the TCP/IP and OSI models; IP addressing; WAN technologies; operating and configuring IOS devices; configuring RIPv2 and simple networks, static and default routing; and implementing NAT and DHCP.

Program Objectives:

Students completing this program will have developed skills in:

- Network components and functions, VPN, CDN, intranets, extranets & wireless
- Open Systems Interconnection (OSI) reference model
- Binary, decimal, and hexadecimal numbering
- Switching operations and theory
- Host-to-Host packet delivery process
- TCP/IP network addressing and routing, IP subnetting
- Providing Local Area Network (LAN), Wide Area Network (WAN), and remote access services
- Cisco Internet Operating System (IOS), Cisco Discovery Protocol (CDP), telnet & TFTP
- Initial configuration of Cisco switches and routers

MICROSOFT CERTIFIED PROFESSIONAL (MCP) COURSE DETAILS

Prerequisite: This class is designed for individuals who have the Network+ certification or equivalent experience. This program provides a strong foundation in the Microsoft Windows Professional operating software systems, an overview of Microsoft Windows operating system including hands-on exercises and real world examples of how Windows is used in large and small computer network systems.

Program Objectives:

Students completing this program will have developed skills in:

- Installing and upgrading Windows OS
- Troubleshooting
- Managing and optimizing peripherals including mobile, printing and display devices, etc.
- Managing and optimizing hardware devices, drivers and networks
- Monitoring and optimizing system performance and reliability

SECURITY+ COURSE DETAILS

Prerequisite: This course is designed for individuals who have the MCP certification or equivalent experience. Students should also have additional training or experience such as Network+, CCENT or MCSE. Industry and government employers have a growing need for skilled computer security professionals to combat hackers, decrease financial losses and secure valuable data. This program covers basic and advanced computer security procedures and concepts including intrusion detection, firewalls, encryption and security management. Also covered will be prevention of information technology theft and security of intellectual property as well as theory of security implementation and management. You will gain the knowledge necessary to pass the Security+ exam.

Program Objectives:

Students completing this program will have developed skills in:

- Security concepts that are key to software and hardware design
- Communication security for wireless, email and Internet connectivity
- Basic security encryption technology
- Secure computer environments

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