

IT Systems Administrator

Educational Objectives:

The IT Systems Administrator Program is a three-part program:

Part 1: A+ Comprehensive: CompTIA A+ is the industry standard for establishing a career in IT and the preferred qualifying credential for technical support and IT operational roles.

Throughout this course, with hands on experience, students are better prepared to troubleshoot, problem solve, and better understand a wide variety of issues ranging from networking and operating systems to mobile devices and security. A+ supports the ability to connect users to the data they need to do their jobs regardless of the devices being used.

Part 2: Net+ Networking Fundamentals: Provides students with the fundamentals of networking by giving them hands-on training in networking skills and concepts that affect many aspects of networking. Students will cover such topics as: basic networking, protocols, network devices, TCP/IP architecture, internet addressing, subnetting, routing, servers, remote connectivity, user management, network security, encryption and firewalls, as well as troubleshooting and diagnostic tools. The Network+ course is widely accepted as the prerequisite course for Cisco CCNA and Microsoft Certifications.

Part 3: Microsoft Server Administration: Students are taught the skills necessary to work in a cross platform or mixed Windows server environment. Upon completion of this program, students will have obtained the skills necessary to implement, deploy, manage, maintain, and provision a Windows Server Infrastructure, with Active Directory, Group Policy, and Hyper-V services. Additionally, instruction is provided on supporting, installing, and troubleshooting Windows Operating Systems.

Potential Occupations:

This program will prepare students for positions as a Computer User Support Specialist, Computer Systems Analyst, Call Center Support, Customer Service Representative, Technical Support Specialist, Help Desk Technician, PC Technician, Desktop Support Technician, Network Support Technician, Computer Network Support Specialist, and Network & Computer Systems Administrator.

Admission Requirements:

The program requires a high school diploma or GED. In addition, the student must take the Wonderlic verbal skills test and score a 297 or above, take the Computer Competency test, and score above a 70% to qualify for entrance in the IT Systems Administrator. Upon successful completion of all courses entailed, the student will graduate from the IT Systems Administrator Program and receive a diploma.

Course Tuition: \$13,198 Total Hours: 528 Hours

IT SYSTEMS ADMINISTRATOR

528 HOURS

Course Number	Course Name	Exam	Certification
NH5000 or DE-NH5000	CompTIA A+ Comprehensive	220-1001 220-1002	A+ Certification
NH5200 or DE-NH5200	CompTIA Net+ Networking Fundamentals	N10-007	Network + Certification
NHMD100 or DE-NHMD100	Windows 10	MD-100	MD-100 Certification
NH70740-741 or DE-NH70740-741	Installation, Storage, Compute and Networking Windows Server 2016		
NH70742 or DE-NH70742	Identity with Windows Server 2016		

Tuition Prices for IT Systems Administrator	
Tuition Only	\$13,198
Tuition with Optional Certification Package	\$ See Enrollment Agreement
<i>INCLUDES: Exam vouchers, test preparation software keys, additional lab time, hands on breakout sessions, voucher administration and one on one Instructor time to develop a plan to address weak areas to prepare for exams from special testing software.</i>	<i>Based on the quantity and type of exams purchased prices will vary, See your Education Consultant.</i>

Students who purchased test prep packages and completed the appropriate courses are eligible to take the exam for the corresponding certifications. Passing of certification exams are not guaranteed.



NH5000 A+ Comprehensive

CompTIA A+ is the industry standard for establishing a career in IT and the preferred qualifying credential for technical support and IT operational roles. Throughout this course, with hands on experience, students are better prepared to troubleshoot, problem solve, and better understand a wide variety of issues ranging from networking and operating systems to mobile devices and security. A+ supports the ability to connect users to the data they need to do their jobs regardless of the devices being used.

Topics include:

- Systems Component Overview- Processors and CPUs, Storage devices, and Input and Output devices.
- Understanding Types of Memory- RAM, ROM, single-sided, and double-sided memory.
- Troubleshooting Procedures- Troubleshooting, What to look for, Audible codes and Visible codes.
- Operating Systems- Windows, Linux, Mac, Configuration, and Installation.
- Networking and Wireless Connections- Server networks, network protocols, securing routers, and troubleshooting networks.
- Security Fundamentals- Types of attackers and attacks, Malware, Data protection, and backups.



NH5200 CompTIA Net+ Networking Fundamentals

CompTIA Network+ validates the ability to select, connect, configure, and troubleshoot basic network hardware, including wireless technology. Employees, customers, and potential clients depend on their network. Employing those CompTIA Network+ certified, help keep this vital part of business up and running. This course is intended for entry-level computer support professionals with basic knowledge of computer hardware, software, and operating systems, who wish to increase their knowledge and understanding of networking concepts and skills to prepare for a career in network support or administration, or to prepare for the CompTIA Network+ certification.

Topics include:

- Network Standards- OSI/RM, Upper and Lower layers, Ethernet, and Ethernet Frames.
- Network Communications- Transmission methods, communication domains, wiring differences, connecting cables, Wireless Modes, Devices, and Networking Standards.
- Working with TCP/IP- TCP/IP layers, core protocols, IP addresses, IPv6, DHCP, and DNS.
- Network Devices- Common network devices, physical devices, network switches, and additional network devices.
- Wide Area Networks- WAN fundamentals, Wired WAN connections, Wireless WAN connections, and Fiber WAN connections.
- Remote Access- Remote networking, Authentication, and VPN.
- Network Security- Network threats, planning for network security, and threat categories.
- Building highly available and scalable Networks- Business continuity, high availability, Virtualization, Cloud Computing, and Unified Communications.
- Maintenance, Monitoring and Troubleshooting- Network safety fundamentals, Network operations, Maintaining and Monitoring networks, troubleshooting methodology, troubleshooting tools, and troubleshooting network issues.



Microsoft Courses

NHMD100 Windows 10

In this course, students will learn how to support and configure Windows 10 desktops in an organizational environment, as well as how to plan and implement an operating system deployment strategy using modern deployment methods.

Topics Include:

- Windows 10- Learning how to install, customize, and update Windows 10 operating systems, managing storage, files, and devices, configuring network connectivity for Windows 10, managing and troubleshooting Windows 10.

NH70740-741 Installation, Storage, Compute and Networking Windows Server 2016

This course will help students update their knowledge and skills related to storage, compute, and networking for Windows Server 2016.

Topics Include:

- Installation, Storage and Compute with Windows Server 2016- Installing Windows servers in host and computer environments, implementing local and enterprise storage solutions, implementing Hyper-V virtualization, implementing Windows containers, implementing high availability, and maintaining and monitoring a server environment.
- Networking with Windows Server 2016- Planning and implementing IPv4 and IPv6 networks, installing and configuring DHCP, installing and configuring DNS, implementing and managing IP address management, implementing remote access, installing and configuring branch office networking, and implementing advanced networking features.

NH70742 Identity with Windows Server 2016

This course will teach students about monitoring, troubleshooting, and establishing business continuity for Active Directory Domain Services.

Topics Include:

- Installing and configuring domain controllers, managing Active Directory objects, securing Active Directory Domain Services, working with complex AD DS infrastructures, implementing Group Policy, understanding Microsoft Azure AD and Directory Synchronization, monitoring and recovering AD DS, and implementing Active Directory Certificate, Federation, and Rights Management Services.



Electives

NH5300 CompTIA Security +

CompTIA Security+ is the first security certification IT professionals should earn. It establishes the core knowledge required of any cybersecurity role and provides a springboard to intermediate-level cybersecurity jobs.

Topics Include:

- Identifying security fundamentals and threats, analyzing risk, conducting security assessments, implementing network, operational, host, and software security, managing identity and access, implementing cryptography, addressing security issues, and ensuring business continuity.

NH5400 CompTIA Linux +

CompTIA Linux+ provides a comprehensive look at common tasks performed by system administrators.

Topics Include:

- Installing and managing Linux systems from the command line and the GUI, user administration, file permissions, customization, software configuration, management of Linux-based clients, and troubleshooting.

NH5500 CompTIA Cloud +

CompTIA Cloud+ will teach students about cloud concepts, models, data storage, networking, and network infrastructure.

Topics Include:

- Cloud benefits, service models, delivery models, terminology, disk types and configurations, RAID, storage technologies, and network types.

NH70800 Microsoft Azure 2017

This course will introduce students to Microsoft Azure, as well as teach them about the Azure App Service, monitoring and application insights, and DevOps.

Topics Include:

- Introduction to Azure, hosting plans, deployment, debugging and function apps, work backlog, and testing.

NH70810 Microsoft SQL Server Core 2016

This course will introduce students to SQL Server Core 2016.

Topics Include:

- SSMS, data tools, installation, server configuration, using Management Studio, and writing and executing queries.

NH70820 Microsoft SQL Server 2016 - Fundamental & Intermediate

This course will introduce students to SQL Server 2016 at a basic level and move to an intermediate level.

Topics Include:

- Exploring SQL Server 2016: Fundamentals- T-SQL and manageability enhancements, more enhancements and In Memory Tables, and Column Store Indexes.
- Exploring SQL Server 2016: Intermediate- Security and availability, SSIS, SSAS and SSRS, and advanced integration.

NH70830 Microsoft Foundation SharePoint-Basic & Advanced

This course is designed to teach students how to navigate, add content, and customize your Windows SharePoint Foundation 2010 Web site to meet the specific needs of your users.

Topics Include:

- SharePoint Basic- Navigating and contributing to a Team Web Site.
- SharePoint Advanced- Adding components to a site, applying site themes, changing site components and navigation options, editing pages in SharePoint Foundation and SharePoint Designer, managing content controls, and modifying RSS feed settings, using workflows, and site galleries.

NH6000 VMware vSphere 6.5 - Admin Basics

This course covers everything you need to know about the VMware vSphere 6.5 Administration Basics Ultimate Bootcamp.

Topics Include:

- Virtualization, planning and installing ESXi, using tools to administer a VMware environment, vCenter Server 6.5 and licensing, configuring networking, configuring storage, VM creation, configuration, snapshots, security and permissions, server and VM monitoring, advanced ESXi and vCenter server management, patching and upgrading ESXi, and disaster recovery, and backup.

NH6100 Amazon Web Services

This course will introduce students to Amazon Web Services, as well as teach them about services and support, creation, security, best practices, net and content delivery, storage, object lifecycles, and EC2.

Topics Include:

- Core services, roles, policies and best practices, object lifecycle, versioning, and permissions, and launching an EC2.

NH6200 ITIL 4

This course will introduce students to version 4 of the ITIL Foundation course.

Topics Include:

- Digital Transformation, key concepts, service value and the Service Value Chain & Practices.

NH9000 Certified Ethical Hacker

The Certified Ethical Hacker program is the most comprehensive ethical hacking course on the globe to help information security professionals grasp the fundamentals of ethical hacking.

Topics Include:

- Reconnaissance, protocols, windows hacking, attacking web technologies, and pen testing wireless networks.

