

Network Technician

Core IT Pathway



Network Technicians play a vital role in a world dependent on communication via computer networks. They install, maintain, and troubleshoot Local Area Networks (LANs), Wide Area Networks (WANs) and data communication equipment. The Network Technician’s job also includes testing and configuring operating systems, repairing hardware, performing preventive maintenance, and applying security measures to ensure that customer needs are met.

As communication and collaboration across networks continues to grow, companies rely on network technicians to support the critical business applications that keep their organizations running effectively.

4 Courses, 5 Certifications, 8 Credits **214 Hours**

Foundations in Information Technology **Network Installation, Security and Maintenance**

Client and Server Technician Fundamentals **Business Skills Workshops**

5 Certifications* **CompTIA | Microsoft**

CompTIA IT Fundamentals+	Microsoft Security, Compliance, and Identity Fundamentals
CompTIA A+	CompTIA Network+
Microsoft Azure Fundamentals	

Project

Students will install and troubleshoot a small enterprise branch network using Cisco simulation software with a Windows server virtualization.

Certificate of Completion	College Credits
Students who pass all the courses and pass at least 50% of the certification exams receive a Certificate of Completion that represents successful completion of Network Technician program.	Whether or not you plan to continue your formal education immediately after completing a NuPaths’ program, you’ll earn college credits that you can apply toward a college degree. Students have the potential to earn up to 8 college credits in the Network Technician program.

Course Descriptions

Foundations in Information Technology

The course focuses on the basics of computer hardware, software, mobile computing, networking, troubleshooting, and emerging technologies. Students learn about configuring operating systems, file and folder management, networks and network configuration, and the role of the OSI model in networking and troubleshooting. A fundamental understanding of computer hardware, operating systems, computer application software, networking technologies and protocols, web browsers, identifying security risks, troubleshooting errors, and system maintenance is gained. The course also includes an exploration of cutting-edge technologies such as cloud computing and virtualization.

Client and Server Technician Fundamentals

The course covers the principles of installing, building, upgrading, repairing, configuring, troubleshooting, optimizing, and preventative maintenance on desktop, laptop, and server computers. Managing cloud services and storage with Microsoft Azure, along with monitoring and troubleshooting services is included. Windows Network Services and Applications are also addressed. Elements of customer service and communication skills are also explored.



Network Installation, Security and Maintenance

Learn to design, implement, and analyze functional networks by configuring, managing, securing, and maintaining essential network devices. Security layers, authentication, authorization, and accounting are explored, along with network security to protect the Server and Client.

Business Skills Workshops

This course focuses on the business or “soft” skills that allow people to interact effectively and productively, skills like collaboration, communication, emotional intelligence, and time management.

Technology Experience Gained

Operating systems . Anti-malware software . Productivity software . Browser software . Backup software
Wireless router/switch . Printers . Antivirus software . Azure. Cloud. Virtualization software . Software drivers . Windows . Mac . Linux . Monitors . Projectors . Access points . Surge suppressor . UPS Windows Server Virtualization . Windows System Center . External storage . Mobile devices

*Third party certification providers give certification exams that must be successfully completed as per their requirements.

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