

# BUSINESS AND INFORMATION TECHNOLOGIES DIVISION

## INDUSTRY CERTIFICATIONS

CompTIA's goal is to provide a unified voice, global advocacy and leadership, and to advance industry growth through standards, professional competence, education, and business solutions.

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**A+ Certification** - The CompTIA A+ certification is the industry standard for validating vendor-neutral skills expected of an entry-level computer technician. Those holding the A+ certification have a broad base of knowledge and competency in core hardware and operating system technologies including installation, configuration, diagnosing, preventive maintenance and basic networking.

Every business uses computers and skilled technicians are a necessity. A+ opens the door to an exciting career in computer technology at an affordable price. A+ certification is the perfect launch pad into other more challenging careers in information technology. **Total Required Hours - 6**

**Professional Course Required:**

CIS 268 Software Support – 3

CIS 269 Hardware Support – 3

**CompTIA Security+™ Certification** - CompTIA Security+ validates knowledge of systems security, network infrastructure, access control, assessments and audits, cryptography and organizational security. It is an international, vendor-neutral security certification that is taught at colleges, universities and commercial training centers around the world.

Although not a prerequisite, it is recommended that CompTIA Security+ candidates have at least two years of on-the-job technical networking experience, with an emphasis on security. The CompTIA Network+ certification is also recommended. **Total Required Hours - 3**

**Professional Course Required:**

CIS 280 Network Security+ – 3

**CompTIA Network+® Certification** – The CompTIA Network+ certification is an international industry credential that validates the knowledge of networking professionals with at least nine months of experience in network support or administration or adequate academic training. A typical candidate would have CompTIA A+ certification or equivalent knowledge, but this is not a prerequisite. The skills and knowledge measured by this examination were derived from an industry-wide job task analysis and validated through an industry-wide survey of more than 2,500 participants.

Earning a CompTIA Network+ certification demonstrates that a candidate can describe the features and functions of networking components, and possesses the knowledge and skills needed

to install, configure and troubleshoot basic networking hardware, protocols and services. The exam tests technical ability in the areas of media and topologies, protocols and standards, network implementation, and network support. The exam also covers new technologies such as wireless networking and gigabit Ethernet. **Total Required Hours - 3**

**Professional Course Required:**

CIS 199 – Network Communications – 3

**Cisco Certified Network Associate (CCNA)** – The CCNA certification (Cisco Certified Network Associate) indicates a foundation in and apprentice knowledge of networking. CCNA certified professionals can install, configure, and operate LAN, WAN, and dial access services for small networks (100 nodes or fewer), including but not limited to use of these protocols: IP, IGRP, Serial, Frame Relay, IP RIP, VLANs, RIP, Ethernet, Access Lists. **Total Required Hours - 12**

**Professional Course Required:**

CIS 270 – Cisco I – 3

CIS 272 – Cisco III – 3

CIS 271 – Cisco II – 3

CIS 273 – Cisco IV – 3

**CompTIA Network+** certification demonstrates that a candidate can describe the features and functions of networking components, and possesses the knowledge and skills needed to install, configure and troubleshoot basic networking hardware, protocols and services. The exam tests technical ability in the areas of media and topologies, protocols and standards, network implementation, and network support. The exam also covers new technologies such as wireless networking and gigabit Ethernet. **Total Required Hours - 3**

**Professional Course Required:**

CIS 199 – Network Communications – 3

**The IC3 Digital Literacy Certification**—program recently delivered its five-millionth exam! – Certiport’s Internet and Computing Core Certification is an ideal certification for those who want to demonstrate critical computer and Internet skills valued in today’s academic and professional environments. It is the world’s first certification program for digital literacy. IC3 is the most commonly recognized standard of digital literacy today. Individuals that achieve IC3 certification possess the validated skills and knowledge required for basic use of computer hardware, software, networks, and the Internet. Not only are these tools for success in the 21st Century classroom but also for higher education, employment, and life.

The IC3 certification consists of the three-part exam (each exam takes less than an hour to complete):

- Part A: Computing Fundamentals: Computer Hardware, Computer Software, Using an Operating System
- Part B: Key Applications: Word, Excel, PowerPoint

- Part C: Living Online: Networks, Electronic Mail, Internet and impact of the Internet on Society **Total Required Hours - 3**

**Professional Course Required:**

CIS 149 – Introduction to Computers – 3

**Microsoft Office Specialist** – The Microsoft Office Specialist Program provides industry-leading assessments of skills and knowledge through our new project-based testing, giving students and professionals, real-world exercises to appraise their understanding of Microsoft Office.

This guarantees that every certified user has demonstrated the ability to command the full features and functionality of Microsoft Office, preparing them for future academic or workforce opportunities.

Microsoft certification gives students and workforce candidates the power to chart their own course, fulfill their ambition, and realize their potential. **Total Required Hours - 3**

**Professional Course Required:**

CIS 147 – Advanced Microcomputer Applications – 3

**Swift Programming** (The language for first-time coders and full-time developers.) Swift is a robust and intuitive programming language that's easy to learn, simple to use, and super powerful. Which makes it great for getting started with code. It's also one of the fastest growing, most popular open-source programming languages used by professional developers. In fact, some of the world's most popular apps are built in Swift. **Total Required Hours – 12**

**Professional Course Required:**

CIS 157 – Introduction to App Development with Swift – 3

CIS 220 – App Development with Swift I – 3

CIS 227 – App Development with Swift II – 3

CIS ELECTIVE – 3