

# COMPUTER OPERATIONS AND SECURITY SPECIALIST

**DEGREE:** ASSOCIATE OF APPLIED SCIENCE IN COMPUTER OPERATIONS AND SECURITY

QUARTER CREDIT HOURS: **107.5**

**CERTIFICATE:** COMPUTER OPERATIONS AND SECURITY SPECIALIST

QUARTER CREDIT HOURS: **80.5**



## What does a Computer Operations and Security Specialist do?

Computer Operations and Security Specialists provide help and advice to computer users and organizations. These specialists either support computer networks or they provide technical assistance directly to computer users. Computer Information Specialists analyze, troubleshoot, and evaluate computer network problems. They play an important role in the routine maintenance of their organization's networks, such as performing file backups on the network.

## How will Asher College prepare me for this career?

The computer industry continues to demand educated IT professionals. Asher College provides students with knowledge for their field including:

- PC Repair
- Building, upgrading, maintaining, diagnosing and troubleshooting computer hardware & software
- Solving system and network connectivity issues
- Designing, implementing, and managing network infrastructure
- Understanding and implementing network security fundamentals and practices
- How to install, configure, and maintain a Windows Operating System in stand-alone, workgroup, and domain environments
- Anticipating security flaws in cloud infrastructures & mitigating them before incidents occur, by adopting a defense-in-depth strategy with robust security protocols to protect resources
- Configuring, managing, operating, and troubleshooting Linux on-premises and cloud-based server environments, while using security best practices, scripting, containerization, and automation

## What characteristics are important in this field?

- **Analytical skills:** Administrators need to evaluate networks and systems to make sure that they perform reliably and to anticipate new requirements as customers' needs change.
- **Communication skills:** Administrators must describe problems and their solutions to non-IT workers.
- **Multitasking skills:** Administrators may have to work on many problems and tasks at the same time.
- **Problem-solving skills:** Administrators must quickly resolve problems that arise with computer networks.

## What are the job opportunities in this Career?

The Computer Operations and Security Specialist certification is appropriate for job roles including:

- Help Desk
- PC Support Technician
- Jr. Data Center Technician
- IT Support Specialist
- Network Repair Technician
- Desktop Support

## What is the Salary Potential and the job outlook in this field?

Asher College provides career-training programs for entry and mid-level positions. Salaries vary depending on geographical location, economic conditions, and willingness to relocate. Salaries by occupation and specific location can be found at [www.onetonline.org](http://www.onetonline.org). National figures for labor market activity, working conditions, and price changes in the economy are available at [www.bls.gov/ooh/](http://www.bls.gov/ooh/) or you can visit the campus career services department to learn where Asher graduates work and the beginning salaries in their respective careers.

## What are the typical working hours for this career?

Most Computer Operations and Security Specialists work full time. Organizations depend on their computers, so specialists may need to work overtime to ensure that the networks are operating properly around the clock.



Program Accredited By:



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ASHER ID	COURSE NAME	CERTIFICATION EXAM OR SKILL
PCS110	PC Support Level 1	CompTIA A+ Part 1 of 2
PCS111	PC Support Level 2	CompTIA A+ Part 2 of 2
NET103	Introduction to Networking	CompTIA Network+
MOS102	Windows OS	Skill Development
SEC102	Network and Operational Security	CompTIA Security+
CD101	Career Success	Soft Skill Development
CD201	Advanced Career Development	Soft Skill Development
VMW101	Introduction to VMWare	Skill Development
TF100	Typing Fundamentals	Skill Development
CFO100	Cloud Fundamentals	Skill Development
OSL200	Administering Linux	CompTIA Linux+

## What Certification and Exam options do I have with this program?

CompTIA A+  
CompTIA Network+  
CompTIA Security+  
CompTIA Linux+



## How long will it take to complete my certificate?

**Full time** = 12 months (24 hours per week)  
**¾ time** = 16 months (18 hours per week)  
**Half Time** = 25 months (12 hours per week)

## Earn the following credentials by stacking multiple CompTIA certifications:

Infrastructure Specialist – **CIOS** – **CompTIA IT Operations Specialist** (A+ and Network+)  
Cybersecurity Specialist – **CSIS** – **CompTIA Secure Infrastructure Specialist** (A+ and Network+ and Security+)  
Infrastructure Specialist – **CSSS** – **CompTIA Systems Support Specialist** (A+ and Linux+)  
Infrastructure Professional – **CLNP** – **CompTIA Linux Network Professional** (Network+ and Linux+)



## Earn an Associate of Applied Science in Computer Operations and Security - add 6 Months and the following courses:

ASHER ID	COURSE NAME
GE101 or GE107	Critical Thinking or Introduction to Psychology
GE102	Business Communication
GE103	Business Math
GE104	Introduction to Business
GE105 or GE108	Principles of Management or Leadership
GE106	American Government

For more information on our programs, our catalogs can be viewed at <https://asher.edu/disclosures/>

[www.Asher.edu](http://www.Asher.edu)

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### LAS VEGAS

6029 W Charleston Blvd  
Las Vegas, NV 89146 • 702-323-0853

### SACRAMENTO

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Sacramento, CA 95825 • 916-900-2850