

Certified Hardware Technician

COURSE INFORMATION

Course Title: Certified Hardware Technician

Duration: 5 Days

Language: English

Class Format Options:

Instructor-led classroom
Live Online Training

Prerequisites:

- None

Student Materials:

- Student Workbook

Certification Exams:

- Certified Hardware Technician Exam
- Covers A+ Hardware Exam Objectives

CEUs: 40

WHO SHOULD ATTEND?

Anyone who is or will be working in IT

This course will kick start your career in the IT field by providing the foundational knowledge needed to install, configure, and support computer hardware systems; this includes assembling components based on customer requirements; installing, configuring and maintaining devices, PCs, and servers. It will also provide an understanding of the fundamentals of networking and security/forensics; properly and safely diagnosing, resolving, and documenting common issues; as well as applying troubleshooting skills. A key component to anyone's skillset is customer service, this course provides insight into providing appropriate customer support. A favorite part of this course is the dive into wireless networks, mobile devices and custom builds for end user deployment. This course maps to the mile2 Certified Hardware Technician exam as well as the CompTIA A+ 220-901 certification exam.

Cybersecurity Work Force Development

C)HT™

C)OST™

C)NP™

C)SP™

All combos Include:

- Online Video
- Electronic Book (Workbook/Lab guide*)
*in all technical classes only
- Exam Prep Questions
- Exam

ACCREDITATIONS



NICCS™

NATIONAL INITIATIVE FOR
CYBERSECURITY CAREERS AND STUDIES



is ACCREDITED by the NSA CNSS 4011-4016
Is MAPPED to NIST/Homeland Security NICCS's Cyber Security Workforce Framework
is APPROVED on the FBI Cyber Security Certification Requirement list (Tier 1-3)

UPON COMPLETION

Upon completion, the **Certified Systems Hardware Technician** candidate will be able to competently attempt the C)HT exam as well as the CompTIA A+ 220-901 exam.

EXAM INFORMATION

The **Certified Systems Hardware Technician** exam is taken online through Mile2's Assessment and Certification System ("MACS"), which is accessible on your mile2.com account. The exam will take 2 hours and consist of 100 multiple choice questions. The cost is \$500 USD and must be purchased from Mile2.com.



OUTLINE

Chapter 1 – Troubleshooting
Chapter 2 – Motherboards and CPUs
Chapter 3 – Computer Power Supplies
Chapter 4 – Memory
Chapter 5 – Computer Expansion
Chapter 6 – Physical Storage
Chapter 7 – Input-Output Devices
Chapter 8 – Display Devices

Chapter 9 – Network Cables and Connectors
Chapter 10 – Printers and Multifunction Print Devices
Chapter 11 – TCP/IP and Transport Protocols
Chapter 12 – Custom Computers
Chapter 13 – Operational Procedures

DETAILED OUTLINE

Chapter 1: Troubleshooting

Section 1: Troubleshooting theory

Section 2: Safety

Chapter 2: Motherboards and CPUs

Section 1: Motherboards

Section 2: CPUs

Chapter 3: Computer Power Supplies

Section 1: Power supply connectors

Section 2: Power supply installation

Section 3: Power supply troubleshooting

Chapter 4: Memory

Section 1: Read-only memory

Section 2: Random access memory

Chapter 5: Computer Expansion

Section 1: Expansion interfaces

Section 2: Expansion card installation

Section 3: Connectors and cables

Chapter 6: Physical Storage

Section 1: Disk drives

Section 2: Redundant array of independent disks (RAID)

Section 3: Optical drives

Section 4: Other storage methods

Chapter 7: Input-Output Devices

Section 1: Input devices

Section 2: Output devices

Section 3: Dual input-output devices

Chapter 8: Display Devices

Section 1: Display types

Section 2: Display installation

Section 3: Display troubleshooting

Chapter 9: Network Cables and Connectors

Section 1: Twisted-pair connections

Section 2: Coaxial connections

Section 3: Optical media

Chapter 10: Mobile Devices

Section 1: Mobile device types

Section 2: Mobile device troubleshooting

Chapter 11: Printers and Multifunction Print Devices

Section 1: Printer technologies

Section 2: Printer installation

Section 3: Printer maintenance

Section 4: Printer troubleshooting

Chapter 12: Custom Computers

Section 1: Wi-Fi standards

Section 2: Wireless encryption

Chapter 13: Operational Procedures

Section 1: Environment

Section 2: Safety

Section 3: Content Privacy

Section 4: Professionalism