



PC Fundamentals Assessment Blueprint

The PC Fundamentals assessment was designed to accompany the Heathkit PC Fundamentals course. This assessment includes the core content areas covered on the CompTia A+® Certification. The PC Fundamentals assessment can be used in secondary and post-secondary educational settings as well as in the business/industry environment. Following NOCTI's traditional assessment offerings, the assessment can be used as both a pre- and post assessment which provides opportunities for measuring student and program improvement.

Individuals meeting the minimum required score will receive a Heathkit endorsed certificate which is a valuable portfolio addition.

Multiple-Choice Assessment		
Content Areas	Percent of Test	Number of Items
Personal Computer Components	21%	21
Laptop & Portable Devices	11%	11
Operating Systems	21%	21
Printers and Scanners	10%	10
Networks	12%	12
Security	11%	11
Safety & Environmental Issues	9%	9
Communication & Professionalism	5%	5

Multiple-Choice Assessment Administration Time: 90 minutes

Heathkit Educational Systems PC Fundamentals Assessment covers all the domains that are a part of the CompTIA A+ Certification test. The Assessment objectives assure students will be well prepared for taking the exam.

1. Evaluate students' understanding of the technology, operation, and ability to identify the components found in:
 - ❑ Personal Computers
 - ❑ Laptop Computers
 - ❑ Personal Devices
 - ❑ Operating Systems
 - ❑ Wired and Wireless Networking Systems
 - ❑ Printers and Scanners
2. Determine students' ability to install, configure, optimize, and upgrade the listed items.
3. Confirm students' understanding of tools, diagnostic procedures, and troubleshooting techniques for the listed items.
4. Substantiate student's ability to perform preventive maintenance on the listed items.
5. Evaluate student's knowledge of hardware and software security measures.
6. Determine students' ability to install, optimize and troubleshoot for security.
7. Confirm students' understanding of safety hazards and ability to take preventive action using Material Safety Data Sheets (MSDS), or equivalent documentation, and appropriate equipment documentation.
8. Determine the students' understanding of potential hazards and implement proper safety procedures including ESD precautions and procedures, safe work environment, and equipment handling.
9. Confirm students' knowledge of proper disposal procedures for batteries, display devices, and chemical solvents and cans.
10. Evaluate student's communication skills including listening and tact/discretion when communicating with customers and colleagues.
11. Evaluate job-related professional behavior including notation of privacy, confidentiality, and respect for the customer and customer's property.