



ExplorNet's Computer Science Integration I

This framework is designed to prepare students for the CompTIA's A+ 220-1001. (Recommended hours of instruction: 60-90 hours)

CompTIA A+ 220-1001	AR CS Standards	Objective	Unit Titles/Competency and Objective Statements (The learner will be able to:)	Course Weight	RBT
				Total Course Weight	100%
COMPUTER SCIENCE BASICS				14%	
		101	Understand the various uses, characteristics and functions of computer and device types	14%	B2
		101.01	Describe how computers and their uses have changed over time.	3%	
		101.02	Categorize types of computers, their uses, characteristics, and functions.	3%	
		101.03	Categorize risks associated with technology.	8%	
HARDWARE				62%	
		102	Understand core PC components	38%	B2
3.5	1.93	102.01	Differentiate between motherboard components, their purposes, and properties.	16%	
3.5		102.02	Describe BIOS settings.	4%	
3.5		102.03	Differentiate among various CPU types and features and select the appropriate cooling method.	8%	
3.3		102.04	Compare and contrast RAM types and features.	5%	
3.7		102.05	Give examples of appropriate power supplies for various scenarios.	5%	
		103	Understand additional PC components	24%	B2
3.1-2		103.01	Categorize connector types and cables.	8%	
3.4	1.3.1 1.3.2-4.3.2 2.2.5-4.2.5	103.02	Explain characteristics and functions of storage devices.	5%	
5.4	1.9.4	103.03	Classify types and features of display devices.	4%	
3.6, 3.10-11, 5.4	1.9.4 1.3.2-4.3.2	103.04	Explain characteristics and functions of peripheral devices including printers.	3%	
3.8-9		103.05	Compare appropriate components for custom configurations.	4%	
TROUBLESHOOTING				24%	
		104	Apply troubleshooting theory	24%	C3
5.1	1.1.1-4.1.5	104.01	Establish a troubleshooting theory.	6%	
5.2-3	1.1.1-4.1.5	104.02	Apply and test a troubleshooting theory to resolve common problems related to computer hardware.	9%	
5.4, 5.6	1.1.1-4.1.5	104.03	Apply and test a troubleshooting theory to resolve common problems related to computer peripherals.	9%	