



# ExplorNet's Computer Engineering Technology 2

2016-17 Framework Revised Feb. 2016

This framework is designed to prepare students for the following exams: CompTIA's IT Fundamentals (FC0-U51), portions of CompTIA A+ Essentials (220-901 and 220-902), and Microsoft Technology Associate Security Fundamentals (98-367).

(Recommended hours of instruction: 135-180)

CompTIA A+ 220-901	CompTIA A+ 220-902	CompTIA IT Fund FCO-U51	MTA Security 98-367	ExplorNet CET Objective	Unit Titles/Competency and Objective Statements (The learner will be able to:)	Course Weight	RBT
						<b>100%</b>	
<b>A. TROUBLESHOOTING</b>						<b>15%</b>	
				<b>201</b>	<b>Apply troubleshooting theory</b>	<b>15%</b>	<b>C3</b>
	5.5			201.01	Establish a troubleshooting theory.	3%	
4.1, 4.2	5.5	5.3		201.02	Apply and test a troubleshooting theory to resolve common problems related to computer hardware.	8%	
4.3, 4.6	5.5	5.3		201.03	Apply and test a troubleshooting theory to resolve common problems related to computer peripherals.	4%	
<b>B. OPERATING SYSTEMS</b>						<b>32%</b>	
				<b>202</b>	<b>Install and configure operating systems</b>	<b>20%</b>	<b>C3</b>
	1.1, 1.2	1.1, 1.3 5.1		202.01	Install and configure the operating system using the most appropriate method.	3%	
	1.4, 1.7	1.3, 5.4		202.02	Use appropriate operating system features and tools.	3%	
	1.5	5.2		202.03	Use Control Panel utilities.	2%	
	1.3			202.04	Use appropriate command line tools.	3%	
	1.6			202.05	Setup and configure Windows networking.	3%	
1.9	2.2	1.4		202.06	Setup and configure client-side virtualization.	3%	
	4.1	5.3		202.07	Apply a troubleshooting theory to resolve common problems with operating systems.	3%	
				<b>203</b>	<b>Understand other operating systems and technologies</b>	<b>12%</b>	<b>B2</b>
	2.1	1.1		203.01	Utilize common features and functionality of the Mac and Linux operating systems.	4%	
	2.1			203.02	Perform basic Linux commands.	6%	
	2.4			203.03	Summarize the properties and purposes of services provided by network hosts.	2%	
<b>C. MOBILITY AND CLOUD</b>						<b>25%</b>	
				<b>204</b>	<b>Understand mobile devices</b>	<b>15%</b>	<b>B2</b>
	2.5	1.1, 1.4 1.5		204.01	Explain the basic features of mobile operating systems.	2%	
	3.5	1.5		204.02	Compare and contrast methods for securing mobile devices.	2%	
3.1, 3.2 3.4, 3.5		2		204.03	Compare and contrast hardware differences in tablets and laptops.	2%	
	2.6	1.5		204.04	Establish basic network connectivity and configure email.	2%	
	2.7			204.05	Execute and configure mobile device and cloud synchronization.	3%	



# ExplorNet's Computer Engineering Technology 2

2015-16 Framework Revised Feb. 2016

4.5	4.3, 4.4	5.3		204.06	Apply a troubleshooting theory to resolve common issues with mobile devices.	4%	
				<b>205</b>	<b><i>Understand cloud services</i></b>	<b>10%</b>	<b>B2</b>
	2.3			205.01	Classify types of cloud services.	2%	
	2.3			205.02	Compare and contrast various cloud service products.	4%	
		1.4, 4.3		205.03	Explain Bring Your Own Device (BYOD) components and cloud storage.	4%	
<b>D. SECURITY</b>						<b>28%</b>	
				<b>206</b>	<b><i>Understand network security</i></b>	<b>11%</b>	<b>B2</b>
	3.1	3.1	2.6, 4.2	206.01	Compare and contrast common security risks and threats.	2%	
	3.2, 3.4	3.2	1.1, 2.1 2.2, 2.5 4.1	206.02	Describe core security principles, prevention, and access control methods.	5%	
	3.2	3.2	1.2, 4.3	206.03	Describe server protection.	2%	
	3.3		2.4	206.04	Explain operating system security using audit policies.	2%	
				<b>207</b>	<b><i>Apply security tools and methods</i></b>	<b>17%</b>	<b>C3</b>
	3.2, 3.3 3.4	3.2	2.1, 2.3 2.5	207.01	Apply and use common prevention methods.	2%	
	3.4	3.2	1.3	207.02	Implement security best practices to secure a workstation.	4%	
	3.6	3.2		207.03	Use the appropriate data destruction/disposal method.	2%	
	3.7	3.2	1.4	207.04	Secure a SOHO wireless network.	3%	
	3.7	3.2		207.05	Secure a SOHO wired network.	2%	
	4.2	5.3		207.06	Apply a troubleshooting theory to resolve common security issues with appropriate tools and best practices.	4%	