IT ESSENTIALS V. 4.1

Module 3

Computer Assembly Step-by-Step

Adequate lighting, good ventilation, comfortable room temperature, workbench accessible from all sides 3.2 Install the power supply 3. What are the power supply installation steps? What are the power supply installation steps? Virtual Desktop Lab: Install Power Supply 3.3 Attach the components to the motherboard and install the motherboard 3.3.1 Install a CPU and a heat sink/fan assembly 4. How is the CPU secured to the socket on the motherboard? 5. What is thermal compound used for? 6. How do you clean a used CPU? 7. What is the heat sink/fan assembly? 8. What is the heat sink/fan assembly? 8. What is the heat sink/fan assembly? A two-part cooling device Pin 1 CPU lined up with on the CPU socket? 3.3.2 Install the RAM 9. What is meant by volatile memory? Temporary data storage for the CPU while the computer is operating Its contents are lost when the computer is shut down 3.3.3 Install the motherboard and to prevent it from touching he metal portions of the case? Virtual Desktop Lab: Install the Motherboard 3.4 Install Internal Drives	3.1 Op	en the Case	
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Secure the HDD to case using prope screws			·
screws			
			3. Secure the HDD to case using prope
			screws

3.5 Inst	tall drives in external bays			
13.	What are external bays?	Allow access to the media without opening the case		
3.5.1 lr	nstall the optical drive			
14.	What is an optical drive?	A storage device that reads and writes information to CDs and DVDs		
15.	What kind of connector provides power to the optical drive from the power supply?	Molex		
16.	What kind of cable connects the optical drive to the motherboard?	РАТА		
3.5.2 lr	nstall the Floppy Drive			
17.	What is a floppy disk drive (FDD)?	A storage device that reads and writes information to a floppy disk		
18.	What kind of power connector provides the FDD with power from the power supply?	berg		
Virtual	Desktop			
Lab: In:	stall the Drives			
3.6 Install adapter cards				
19.	Why would you use adapter cards?	To add functionality		
3.6.1 lr	nstall the NIC			
20.	Why do you need a NIC?	To connect to a network		
3.6.2 Ir	nstall the wireless NIC			
21.	What type of expansion slots do wireless NICs use?	PC I & PCIe		
3.6.3 Ir	nstall the video adapter card			
22.	What is a video adapter card?	The interface between a computer and a display monitor		
23.	What type of expansion slots do video adapter cards use?	PCI, AGP, PCIe		
Virtual	Desktop			
Lab: In:	stall Adapter Cards			
3.7 Cor	nnect All Internal Cables			
24.	What are power cables used for?	To distribute electricity from the power supply to the motherboard and other components		
25.	What do data cables do?	Transmit data between the motherboard and storage devices		
3.7.1 C	Connect the power cables			
26.	Haw many pins does the ATX main power connector have?	20 or 24		
27.	How many pins are on a SATA power	15		
	connector?			
28.		Floppy drive		
	connector?			
	connector? What is a 4-pin berg connector used for?			

31.	What does a stripe on the data cable	Location of pin 1		
	indicate?			
32.	Where is the pin 1 indicator on the drive	Closest to the power connector on the drive		
	connector?			
33.	If a motherboard has two PATA drive	4		
	controllers, how many PATA drive can it			
	support?			
34.	What type of connector does a SATA data	7 pin		
	cable have?			
35.	What type of a connector does a floppy	34 pin		
	drive data cable have?			
36.	If the floppy drive activity light displays	Ribbon cable is not installed correctly		
	continuously, what is the problem?			
Virtual	Desktop			
	stall Internal Cables			
3.8 Rea	attach the side panels and connect external ca	bles to the computer		
3.8.1 R	te-attach the side panels			
3.8.2 C	Connect external cables to the computer			
37.	Should you force a connector?	No		
38.	When should you plug in the power cable?	After you have connected all other cables		
Virtual	Desktop			
Lab: Co	omplete Computer Activity			
3.9 Bo	ot the computer for the first time			
39.	When booting a computer, what performs	BIOS –basic input/output system		
	a check on all of the internal components?			
40.	What does POST stand for?	Power-on Self-Test		
3.9.1 ld	dentify Beep Codes			
41.	What does POST check for?	To see that all of the hardware in the		
		computer is operating correctly		
42.	What does a single beep indicate?	The computer is functioning properly		
43.	What determines what the beep codes	The BIOS manufacturer		
	mean?			
3.9.2 🗅	Describe BIOS setup			
44.	What is contained in BIOS?	Setup programs used to configure settings		
		for hardware devices		
45.	What does CMOS stand for?	Complementary Metal Oxide Semiconductor		
46.	What key is typically pressed to enter the	DEL		
	BIOS setup program?			
LAB: B	oot the Computer	1		