## CompTIA ITF + Fundamentals Essentials Cheat Sheet by Bayan (Bayan.A) via cheatography.com/122738/cs/34506/

1.1			1.1 (con	t)		1.2 (cont)		
Compare/contrast c & features	ommon OS'	's, functions	Display manag		ectories for data			- Software firewalls
	Mobile types:	Apple iOS	1.2					- Diagnostic/m- aintenance software
		Android Windows	their pu		ms, applications and			- Compression
		Phone Blackberry	Types:	Productivity Software	- Word processing		Specia-	software - CAD
	Workst- ation	Windows			- Spreadsheet software		lized Software	
	types:				- Email software			- Graphic desig
		Мас			- Basic database			- Medical
		Linux			software			- Scientific
		Chrome			- PDF viewers/c-			- Financial
		OS			reators - Presentation			- Gaming
	Open sou				software			- Entertainment
D = 6	commerc				- Desktop		Open source	vs. commercial
Software compatibility for different OS types and versions		ent OS types			publishing	Platforms	Mobile	
Awareness of	32bit vs.	64bit			software		Desktop	
hardware compat- ibility for OS		j systems			- Personal Inform- ation Manager	Common	Web-based Documents	txt, rtf, doc/doc>
support	late of a sec	h a fa sa a sa			- Remote desktop software	file-types		xls/xlsx, ppt/ppt pdf
Basic functions of an operating system	Interface user and			Collab- oration	- Online workspace		Audio	mp3, wav, flac, aac, m4a
	Coordina			Software	Desument		Images	jpg, gif, tiff, pag bmp
	hardware compone	ents			- Document storage/sharing		Video	mpg, mp4, flv,
	Provides for softwa	environment are to			- Screen sharing software		Execut-	wmv, avi exe, msi, app,
	function Monitors	svstem			- Video confer- encing software		ables Compre-	bat, scexe rar, tar, zip, dm
	health an onality	-			- nstant messaging software		ssion formats	iso, 7zip/7z, gzip/gz, jar
					- Email software			
				Utility Software	- Utility Software			

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1.3			
Given a scenario, use software			
management best practices			
nstall / uninstall	OS		
	features		
	Applic-		
	ations		
	Drivers		
Patching / updates for OS, drivers, applications and	Scheduling		
security software			
	Frequency		
	Automatics		
	updates		
Software version identification ibility	and compat-		
Licensing	Products		
	keys		
	Single/mu-		
	lti-license		

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Identify the following alternative techno- logies and their purpose			
Virtualization	Physical machine vs. virtual machine		
Cloud Computing	Streaming media(aud- io/video)		
Web applications			
VoIP			
Telepresence			
Gesture-based interaction	Swiping		
	Pinch-to-zoom		
	Kinetics		

1.5

Explain the basic software features and
functions of wireless devices
Unlocking/security

Bluetooth pairing

Hands free

Data transfer



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1.5 (cont)	
Wireless connection setup	Verify wireless capabi- lities
	Turn on WiFi
	Locate SSID
	Enter wireless passwo- rd(if applicable)
	Verify Internet
	connection
Email config- uration	POP3
	IMAP
	SMTP
Screen orientatio	n
Synchronization of	configuration
Airplane mode	
Stores for mobile	applications

### 2.0

2.0					
Identify basic wired and wireless periph- erals and their purpose					
Putput devices	Printer:	- Laser			
		- Inkjet			
		- Thermal			
	Display	-			
	devices:	Flatscreen			
		- CRT			
		-			
		Projection			
	Speakers				
Input devices	Keyboard				
	Pointing devices	Mouse			
		Touchpad			
		- Joystick			
		Stylus pen			
		Trackball			
	Scanner				
	Microphone				

2.0 (cont)		
	Webcam	
Input & Output devices	Fax	
	External storage devices	Flash drive
		External hard drive
		CD/DVD/Blu- Ray
		Network Attached Storage
		Memory card
		Mobile media players
		Smart phone
	Tanakaan	-!! I

Touchscreen display

2.2			
Compare and contrast common computer connector types			
Video	VGA, DVI, HDMI, Display port/T- hunderbolt, USB, S-video, Component - RGB		
FireWire	e		
eSATA			
Thunde	rbolt		
USB			
PS/2			
Parallel			
Serial			
RJ-45			
RJ-11			
Audio			
Power	AC/DC		

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2.3	
Identify the purpose	e of internal computer
components	
CPU	
Power Supply	
RAM	
Storage	- Optical drive
	- Hard drive
	- Solid state drive
Expansion cards	- Video card
	- Audio card
	- NEtwork card
	- Modem
Motherboard/maint	board
System cooling	- Case fans
	CPU fans
	Liquid cooling
3 1 Security	Liquid cooling
3.1 Security	
Define basic securi	ty threats
	ty threats Virus
Define basic securi	ty threats Virus Trojan
Define basic securi	ty threats Virus Trojan Spyware
Define basic securi Malware	ty threats Virus Trojan
Define basic securi Malware Phishing	ty threats Virus Trojan Spyware
Define basic securi Malware Phishing Social engineering	ty threats Virus Trojan Spyware
Define basic securi Malware Phishing Social engineering Spam	ty threats Virus Trojan Spyware Ransomware
Define basic securi Malware Phishing Social engineering Spam Password cracking	ty threats Virus Trojan Spyware Ransomware
Define basic securi Malware Phishing Social engineering Spam	ty threats Virus Trojan Spyware Ransomware
Define basic securi Malware Phishing Social engineering Spam Password cracking	ty threats Virus Trojan Spyware Ransomware
Define basic securi Malware Phishing Social engineering Spam Password cracking	ty threats Virus Trojan Spyware Ransomware
Define basic securi Malware Phishing Social engineering Spam Password cracking	ty threats Virus Trojan Spyware Ransomware Ransomware

3.2				
Given a scenario, use security best practices				
Password management	Password comple	exity		
	Change default p	asswords		
	Password confide	entiality		
	Password expirat	ion		
	Password reuse			
	Awareness of Sir On	ngle Sign		
Device hardening	Disable unused features	- Disable Bluetooth		
		- Disable NFC		
	Timeout/lock opti	ons		
	Enable security oftware/f- eatures	- Software firewall		
		- Anti-m- alware		
	Encryption option	IS		
Open WiFi vs.	secure WiFi			
Multifactor aut	hentication			
Suspicious emails	- Attachments			
	- Hyperlinks			
Act on security	software alerts			
Admin vs.user	vs. guest account			
3.3				
Given a scenario, use web-browsing best practices				

practices		
Recogn	a secure	https, lock
ize	connection/website	symbol
	invalid certificate w	arnings

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3.3 (c	ont
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3.3 (cont)		
suspicious links		
	suspicious banner ads	
	adware symptoms	- constant popups
		- homepage redirection
		- Search engine redirections
Limit the use of	personal info	rmation (PII)
Update browsers and plugins	- Avoid use browsers	of legacy
Disable unneeded/suspicious browser plugins, toolbars and extensions		
Disable autofill forms/passwords		
Clear browser cache/history/cookies		
Recognize untrusted source warnings		
Risks of using public workstations		
4.1		
Given a scenario basic SOHO rou		Ũ
- Verify wired connection, if applicable		
Set WEP vs. WPA vs. WPA2		
Change SSID from default		
Apply a new wireless password		
Change admin password for router		
Connect to the new network		
Verify internet connectivity		

Update firmware if necessary

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4.2
Compare and contrast cellular, wireless and wired data connections
High vs. low mobility
High vs. low availability
High vs. low throughput/bandwidth
High vs. low reliability
Connection delay

Number of concurrent connections

Levels of security

#### 4.3

Compare and contrast different methods of sharing and storage

- Browser-based file HTTP vs. HTTPS downloads

FTP vs. FTPS vs. SFTP (Secure File	
Transfer Protocol)	

Local vs. hosted storage	Cloud based services	- Cloud-based collaborative applications
		Cloud-based storage
	File and print sharing	Workgroup
		Homegroup
	Network dr	rives
	Netword attached storage	
	Direct attached storage	
	External hard drives	
Peer-to- peer	Local adhoc network	- Bluetooth sharing
	Direct link(	PC-to-PC)

4.3 (cont)		
	Online peer-to-peer network	
Network vs. local printing	USB	
	Wireless/wired	
	network	
5.1		
Perform appropriate steps to set up a basic		

workstation Plug in cables

#### Power on computer

Follow initial operating

system setup wizard settings

> - Screen resolution

-Localization

- Audio
settings

Install security software

Configure peripherals (if applicable) Uninstall unneeded software (if applicable) Configure and verify internet connection

Install additional software (if applicable)

Run software and security updates

Other user accounts (if applicable)

Basic cable management

#### 5.2

Explain the basic methods of navigating an operating system Executing programs Difference between shortcuts and files Manipulating files Open Edit Save Move Copy

5.2 (cont)
Cut
Paste
Delete
Rename
Read-only vs. modifiable files
Navigate a file structure
Search, sort and display files
Create screen captures
Navigate with hot keys
Folder and file size
Accessibility options
Folder and file permissions

#### 5.3

Given a scenario, implement basic support concepts		
Check for external	Loose cables /	
issues	connections	
	Power	
	Physical damage	
Manufacturer documentation		
Manufacturer websites		
Technical community groups		
Internet search engine		
Contact technical support		

#### 5.4 Explain basic backup concepts Importance of backups Scheduling Frequency - Locally attached Storage mediums storage - Offsite/cloud-based -Network attached storage Backup verification and testing

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5.5			
Describe the	importance and impa	ct of	
various enviro	onmental and safety c	oncepts	
Propoer	RoHS		
disposal methods			
methous			
	CRT monitors		
	Scanners		
	Batteries		
	Ink/Toner		
	Hard drives		
Power	Energy efficient devices		
	Power profiles	Power options	
		Sleep/-	
		Hibern-	
		ation	
	UPS vs surge	Power	
	protector vs power strip	limita- tions	
	International power		
	ences	ullei-	
Device	Airflow		
placement			
	Humidity		
	Temperature		
	Dust accumulation		
	EMI		
Electrostatic o	Electrostatic discharge concepts		
Ergonomic	Proper keyboard and mouse		
concepts	placement		
	Sitting positions		
Monitor level placement			
Follow manuf	Follow manufacturer safety guidelines		



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