

by Bayan (Bayan.A) via cheatography.com/122738/cs/34506/

1.1				
Compare/contrast common OS's, functions & features				
	Mobile types:	Apple iOS		
		Android		
		Windows Phone		
		Blackberry		
	Workst- ation types:	Windows		
		Mac		
		Linux		
		Chrome OS		
	Open sou			
Software compatibiliand versions	ty for differe	ent OS types		
Awareness of hardware compat- ibility for OS support	32bit vs. operating			
Basic functions of an operating system	Interface user and			
	Coordina hardware compone			
	Provides for softwa function	environment are to		
	Monitors health an onality	•		

1.1 (cont)				
Display	s structure / dire	ectories for data		
management				
1.2				
	rommon progra	ms, applications and		
their pur		me, applications and		
Types:	Productivity Software	- Word processing		
		- Spreadsheet software		
		- Email software		
		- Basic database software		
		- PDF viewers/c- reators		
		- Presentation software		
		Desktop publishing software		
		- Personal Information Manager		
		- Remote desktop software		
	Collab- oration Software	- Online workspace		
		- Document storage/sharing		
		- Screen sharing software		
		- Video confer- encing software		
		nstantmessagingsoftware		
		- Email software		
	Utility Software	- Utility Software		

1.2 (cont)		
		- Software firewalls
		- Diagnostic/m- aintenance software
		- Compression software
	Specia- lized Software	- CAD
		- Graphic design
		- Medical
		- Scientific
		- Financial
		- Gaming
		- Entertainment
	Open source	vs. commercial
Platforms	Mobile	
	Desktop	
	Web-based	
Common file-types	Documents	txt, rtf, doc/docx, xls/xlsx, ppt/pptx, pdf
	Audio	mp3, wav, flac, aac, m4a
	Images	jpg, gif, tiff, pag, bmp
	Video	mpg, mp4, flv, wmv, avi
	Execut- ables	exe, msi, app, bat, scexe
	Compre- ssion	rar, tar, zip, dmg, iso, 7zip/7z,
	formats	gzip/gz, jar



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

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

Scanner

Microphone

	Locate SS	SID	
	Enter wire rd(if appli	eless passwo- cable)	
	Verify Inte	ernet	
	connectio	n	
Email configuration	g- POP3		
	IMAP		
	SMTP		
Screen orie	ntation		
Synchroniza	ation configuratior	1	
Airplane mo	ode		
Stores for n	nobile applications	3	
2.0			_
	ic wired and wireler	ess periph-	2
Putput devices	Printer:	- Laser	(
		- Inkjet	\
		- Thermal	
	Display	_	F
	devices:	Flatscreen	
		- CRT	
		-	Į
		Projection	F
	Speakers		F
Input	Keyboard		
devices			5
	Pointing	Mouse	F
	devices		F
		Touchpad	A
		- Joystick	F
		Stylus pen	
		Trackball	

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
	Touchscreen	display
2.2		

	Single/mu- Iti-license
1.4	
1.4	
Identify the following logies and their pu	ing alternative techno- urpose
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 functions of wirele	software features and ess devices
Unlocking/security	/
Bluetooth pairing	Hands free
	Data transfer

			2.2			
erals and their purpose			Compare and contrast common computer			
Putput devices	Printer:	- Laser	connector types			
devices		- Inkjet	Video VGA, DVI, HDMI, Display port/T- hunderbolt, USB, S-video, Component - RGB			
	Display	-	FireWire			
	devices:	Flatscreen	eSATA			
		- CRT	Thunderbolt			
		- Destruction	USB			
		Projection	PS/2			
	Speakers		Parallel			
Input	Keyboard		Serial			
devices						
	Pointing	Mouse	RJ-45			
	devices		RJ-11			
		Touchpad	Audio			
		- Joystick	Power AC/DC			
		Stylus pen				
		Trackhall				



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2.3		3.2				3.3 (con	t)		
						3.3 (001)	it)		
Identify the purpos			cena	nario, use security best		suspicious links			
CPU		Password	practices					s banner ads	
Power Supply		managem		Password compl	lexity			adware symptoms	- constant
RAM		J		Change default	passwords			Symptoms	- homepage
Storage	- Optical drive			Password confid	entiality				redirection
Storage	- Hard drive			Password expira	ition				- Search
	- Solid state drive			Password reuse					engine
Expansion cards	- Video card			Awareness of Si	ngle Sign				redirections
Expansion cards	- Audio card			On		Limit the use of personal information (F			rmation (PII)
	- NEtwork card	Device		Disable unused	- Disable	Update		- Avoid use	of legacy
	- Modem	hardening	9	features	Bluetooth	browser	s and	browsers	
Motherboard/main					- Disable	plugins	unnooc	ded/suspicious	s broweer
System cooling	- Case fans				NFC			s and extensi	
Cyclem cooming	CPU fans			Timeout/lock opt	ions			forms/passwo	
	Liquid cooling			Enable security oftware/f-	- Software			cache/history/	
				eatures	firewall			usted source	
3.1 Security					- Anti-m-	_		oublic worksta	
Define basic secur	rity threats				alware				
Malware	Virus			Encryption option	ns	4.1			
	Trojan	Open WiF	i vs.	secure WiFi		Given a	scenar	io, set up and	configure a
	Spyware	Multifacto	r aut	hentication		basic SOHO router (wired / wireless)			vireless)
	Ransomware	Suspiciou	IS	- Attachments				connection, if a	
Phishing		emails				Set WE	P vs. W	VPA vs. WPA2	2
Social engineering	1			- Hyperlinks		Change	SSID 1	from default	
Spam		Act on se	curity	/ software alerts				ireless passw	
Password cracking	9	Admin vs.	.user	vs. guest account	:	Change	admin	password for	router
Physical security	- Hardware theft	2.2				Connec	t to the	new network	
	- Software/license theft	3.3				Verify in	nternet	connectivity	
	- Shoulder surfing	Given a scenario, use web-browsing best practices			sing best	Update	firmwa	re if necessar	у
	- Dumpster diving		2	cocuro	https, lock				
		Recogn ize			symbol				
			jr	nvalid certificate wa	,				
					3-				



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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

Levels of security

4.3

Compare and contrast different methods of sharing and storage

- Browser-based file HTTP vs. HTTPS downloads

Number of concurrent connections

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 d	Irives			
	Netword a	ttached storage			
	Direct atta	ched storage			

	External hard drives	
Peer-to-	Local	- Bluetooth
peer	adhoc	sharing
	network	
	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

•	OVVCI	on compater
F	ollow	initial operating
system setup wizard		

Power on computer

-Localization settings

resolution - Audio

settings

- Screen

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 Сору

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

Explain basic backup concepts

Importance of backups

Scheduling

Frequency

Storage - Locally attached mediums storage

- Offsite/cloud-based

-Network attached storage

Backup verification and testing



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

5.5

Describe the importance and impact of various environmental and safety concepts

Propoer

RoHS

disposal methods

CRT monitors

Scanners

Batteries

Ink/Toner

Hard drives

Energy efficient devices Power

Power profiles

Power options

Sleep/-

Hibern-

ation

UPS vs surge

Power

protector vs

limita-

power strip

tions

International power differ-

ences Airflow

Device

placement

Humidity

Temperature

Dust accumulation

EMI

Electrostatic discharge concepts

Ergonomic

Proper keyboard and mouse

concepts

placement

Sitting positions

Monitor level placement

Follow manufacturer safety guidelines



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