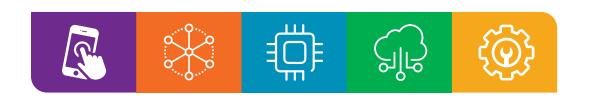


CompTI + Certification Exam Core 1 Objectives

EX M NUMBER: CORE 1 (220-1101)



bout the Exam

Candidates are encouraged to use this document to help prepare for the CompTI + Core 1 (220-1101) certification exam. In order to receive the CompTI + certification, you must pass two exams: Core 1 (220-1101) and Core 2 (220-1102). The CompTI + Core 1 (220-1101) and Core 2 (220-1102) certification exams will verify the successful candidate has the knowledge and skills required to:

- Install, configure, and maintain computer equipment, mobile devices, and software for end users
- Service components based on customer requirements
- Understand networking basics and apply basic cybersecurity methods to mitigate threats
- Properly and safely diagnose, resolve, and document common hardware and software issues
- pply troubleshooting skills and provide customer support using appropriate communication skills
- Understand the basics of scripting, cloud technologies, virtualization, and multi-OS deployments in corporate environments

This is equivalent to 12 months of hands-on experience working in a help desk support technician, desktop support technician, or field service technician job role. These content examples are meant to clarify the test objectives and should not be construed as a comprehensive listing of all the content of this examination.

EX M CCREDIT TION

The CompTI + Core 1 (220-1101) exam is accredited by NSI to show compliance with the ISO 17024 standard and, as such, undergoes regular reviews and updates to the exam objectives.

EX M DEVELOPMENT

CompTI exams result from subject-matter expert workshops and industry-wide survey results regarding the skills and knowledge required of an entry-level IT professional.

CompTI UTHORIZED M TERI LS USE POLICY

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PLE SE NOTE

The lists of examples provided in bulleted format are not exhaustive lists. Other examples of technologies, processes, or tasks pertaining to each objective may also be included on the exam, although not listed or covered in this objectives document. CompTI is constantly reviewing the content of our exams and updating test questions to be sure our exams are current, and the security of the questions is protected. When necessary, we will publish updated exams based on existing exam objectives. Please know that all related exam preparation materials will still be valid.



TEST DET ILS

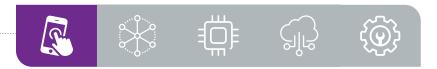
Required exam	+ Core 1 (220-1101)
Number of questions	Maximum of 90
Types of questions	Multiple-choice and performance-based
Length of test	90 minutes
Recommended experience	12 months of hands-on experience in a help desk support technician, desktop support technician, or field service technician job role
Passing score	675 (on a scale of 100–900)

EX MOBJECTIVES (DOM INS)

The table below lists the domains measured by this examination and the extent to which they are represented.

DOM	IN PERCENT GE OF E	X MIN TION	
1.0	Mobile Devices	15%	
2.0	Networking	20%	
3.0	Hardware	25%	
4.0	Virtualization and Cloud Computing	11%	
5.0	Hardware and Network Troubleshooting	29%	
Total		100%	





.1.0 Mobile Devices

- Given a scenario, install and configure laptop hardware and components.
 - · Hardware/device replacement
 - Battery
 - Keyboard/keys
 - Random-access memory (R M)
- Hard disk drive (HDD)/solidstate drive (SSD) migration
- HDD/SSD replacement
- Wireless cards

- · Physical privacy and security components
- Biometrics
- Near-field scanner features
- 1.2 Compare and contrast the display components of mobile devices.
 - Types
 - Liquid crystal display (LCD)
 - In-plane switching (IPS)
 - Twisted nematic (TN)
 - Vertical alignment (V)
 - Organic light-emitting diode (OLED)
- Mobile display components
- WiFi antenna connector/ placement
- · Camera/webcam
- Microphone

- · Touch screen/digitizer
- Inverter

- Given a scenario, set up and configure accessories and ports of mobile devices.
 - Connection methods
 - Universal Serial Bus (USB)/ USB-C/microUSB/miniUSB
 - Lightning
 - Serial interfaces
 - Near-field communication (NFC)
 - Bluetooth
 - Hotspot

- ccessories
 - Touch pens
 - Headsets
 - Speakers
 - Webcam

- · Docking station
- Port replicator
- Trackpad/drawing pad



1.4 Given a scenario, configure basic mobile-device network connectivity and application support.

- Wireless/cellular data network (enable/disable)
 - 2G/3G/4G/5G
 - Hotspot
 - Global System for Mobile Communications (GSM) vs. code-division multiple access (CDM)
 - Preferred Roaming List (PRL) updates
- Bluetooth
 - Enable Bluetooth
 - Enable pairing
 - Find a device for pairing
 - Enter the appropriate PIN code
 - Test connectivity

- · Location services
 - Global Positioning System (GPS) services
 - Cellular location services
- Mobile device management (MDM)/mobile application management (M M)
 - Corporate email configuration
 - Two-factor authentication
 - Corporate applications

- · Mobile device synchronization
 - ccount setup
 - Microsoft 365
 - Google Workspace
 - iCloud
 - Data to synchronize
 - Mail
 - Photos
 - Calendar
 - Contacts
 - Recognizing data caps





-2.0 Networking

- 2.1 Compare and contrast Transmission Control Protocol (TCP) and User Datagram Protocol (UDP) ports, protocols, and their purposes.
 - Ports and protocols
 - 20/21 File Transfer Protocol (FTP)
 - 22 Secure Shell (SSH)
 - 23 Telnet
 - 25 Simple Mail Transfer Protocol (SMTP)
 - 53 Domain Name System (DNS)
 - 67/68 Dynamic Host Configuration Protocol (DHCP)
 - 80 Hypertext Transfer Protocol (HTTP)
 - 110 Post Office Protocol 3 (POP3)

- 137/139 Network Basic Input/ Output System (NetBIOS)/ NetBIOS over TCP/IP (NetBT)
- 143 Internet Mail ccess Protocol (IM P)
- 161/162 Simple Network Management Protocol (SNMP)
- 389 Lightweight Directory ccess Protocol (LD P)
- 443 Hypertext Transfer Protocol Secure (HTTPS)
- 445 Server Message Block (SMB)/Common Internet File System (CIFS)

- 3389 Remote Desktop Protocol (RDP)
- TCP vs. UDP
 - Connectionless
 - DHCP
 - Trivial File Transfer Protocol (TFTP)
 - Connection-oriented
 - HTTPS
 - SSH

- Compare and contrast common networking hardware.
 - Routers
 - Switches
 - Managed
 - Unmanaged
 - ccess points
 - · Patch panel

- Power over Ethernet (PoE)
 - Injectors
 - Switch
 - PoE standards
- Hub

- Cable modem
- Digital subscriber line (DSL)
- Optical network terminal (ONT)
- Network interface card (NIC)
- · Software-defined networking (SDN)



2.3 Compare and contrast protocols for wireless networking.

- Frequencies
 - 2.4GHz
 - 5GHz
- Channels
 - Regulations
- 2.4GHz vs. 5GHz
- Bluetooth

- 802.11
 - a
 - b
 - g
 - n
 - ac (WiFi 5)
 - ax (WiFi 6)

- · Long-range fixed wireless
 - Licensed
 - Unlicensed
 - Power
 - Regulatory requirements for wireless power
- NFC
- · Radio-frequency identification

2.4 Summarize services provided by networked hosts.

- Server roles
 - DNS
 - DHCP
 - Fileshare
 - Print servers
 - Mail servers
 - Syslog
 - Web servers
 - uthentication, authorization, and accounting ()

- Internet appliances
 - Spam gateways
 - Unified threat management (MTM)
 - Load balancers
 - Proxy servers

- · Legacy/embedded systems
 - Supervisory control and data acquisition (SC D)
- · Internet of Things (IoT) devices

- 2.5 Given a scenario, install and configure basic wired/wireless small office/home office (SOHO) networks.
 - Internet Protocol (IP) addressing
 - IPv4
 - Private addresses
 - Public addresses

 - utomatic Private IP ddressing (PIP)
 - Static
 - Dynamic
 - Gateway



2.6 Compare and contrast common network configuration concepts.

- DNS
 - ddress
 - Mail exchanger (MX)
 - Text (TXT)
 - Spam management
 - (i) DomainKeys Identified Mail (DKIM)
 - (ii) Sender Policy Framework (SPF)
 - (iii) Domain-based Message uthentication, Reporting, and Conformance (DM RC)

- DHCP
 - Leases
 - Reservations
 - Scope
- Virtual L N (VL N)
- Virtual private network (VPN)

- 2.7 Compare and contrast Internet connection types, network types, and their features.
 - Internet connection types
 - Satellite
 - Fiber
 - Cable
 - DSL
 - Cellular
 - Wireless Internet service provider (WISP)

- Network types
 - Local area network (L N)
 - Wide area network (W N)
 - Personal area network (P N)
 - Metropolitan area network (M N)
 - Storage area network (S N)
 - Wireless local area network (WL N)
- 2.8 Given a scenario, use networking tools.
 - Crimper
 - Cable stripper
 - · WiFi analyzer

- Toner probe
- Punchdown tool
- · Cable tester

- Loopback plug
- Network tap





-3.0 Hardware

- Explain basic cable types and their connectors, features, and purposes.
 - Network cables
 - Copper
 - □ Cat 5
 - Cat 5e
 - □ Cat 6
 - □ Cat 6a
 - Coaxial
 - Shielded twisted pair (i) Direct burial
 - Unshielded twisted pair
 - Plenum
 - Optical
 - Fiber
 - T568 /T568B
 - Peripheral cables
 - USB 2.0
 - USB 3.0
 - Serial
 - Thunderbolt
 - Video cables

- High-Definition Multimedia Interface (HDMI)
- DisplayPort
- Digital Visual Interface (DVI)
- Video Graphics rray (VG)
- Hard drive cables
 - Serial dvanced Technology ttachment (S T)
 - Small Computer System Interface (SCSI)
 - External S T (eS T)
 - Integrated Drive Electronics (IDE)

- dapters
- Connector types
 - RJ11
- RJ45
- Ftype
- Straight tip (ST)
- Subscriber connector (SC)
- Lucent connector (LC)
- Punchdown block
- microUSB
- miniUSB
- USB-C
- Molex
- Lightning port
- DB9

- 3.2 Given a scenario, install the appropriate R M.
 - R M types
 - Virtual R M
 - Small outline dual inline memory module (SODIMM)
 - Double Data Rate 3 (DDR3)
 - Double Data Rate 4 (DDR4)
 - Double Data Rate 5 (DDR5)
 - Error correction code (ECC) R M

- Single-channel
- Dual-channel
- Triple-channel
- Quad-channel



3.3 Given a scenario, select and install storage devices.

- Hard drives
 - Speeds
 - □ 5,400rpm
 - □ 7,200rpm
 - □ 10,000rpm
 - □ 15,000rpm
 - Form factor
 - 2.5
 - **3.5**

- - Communications interfaces
 - Non-volatile Memory Express (NVMe)
 - □ S T
 - Peripheral Component Interconnect Express (PCIe)
 - Form factors
 - □ M.2
 - □ mS T

- · Drive configurations
 - Redundant rray of Independent (or Inexpensive) Disks (R ID) 0, 1. 5. 10
- · Removable storage
 - Flash drives
 - Memory cards
 - Optical drives

3.4 Given a scenario, install and configure motherboards, central processing units (CPUs), and add-on cards.

- Motherboard form factor
 - dvanced Technology eXtended (TX)
 - Information Technology eXtended (ITX)
- Motherboard connector types
 - Peripheral Component Interconnect (PCI)
 - PCI Express (PCIe)
 - Power connectors
 - S T
 - eS T
 - Headers
 - M.2
- Motherboard compatibility
 - CPU sockets
 - dvanced Micro Devices, Inc. (MD)
 - Intel
 - Server
 - Multisocket

- Desktop
- Mobile
- Basic Input/Output System (BIOS)/Unified Extensible

Firmware Interface (UEFI) settings

- Boot options
- USB permissions
- Trusted Platform Module (TPM) security features
- Fan considerations
- Secure Boot
- Boot password
- Encryption
 - TPM
 - Hardware security module (HSM)
- · CPU architecture
 - x64/x86
 - dvanced RISC Machine (RM)
 - Single-core
 - Multicore

- Multithreading
- Virtualization support
- Expansion cards
 - Sound card
 - Video card
 - Capture card
- Cooling
 - Fans
 - Heat sink
 - Thermal paste/pads
 - Liquid

- 3.5 Given a scenario, install or replace the appropriate power supply.
 - Input 110-120 V C vs. 220-240 V C
 - Output 3.3V vs. 5V vs. 12V
 - 20-pin to 24-pin motherboard adapter

- Redundant power supply
- · Modular power supply
- · Wattage rating
- 3.6 Given a scenario, deploy and configure multifunction devices/ printers and settings.
 - Properly unboxing a device setup location considerations
 - Use appropriate drivers for a aiven OS
 - Printer Control Language (PCL) vs. PostScript
 - Device connectivity
 - USB
 - Ethernet
 - Wireless

- Public/shared devices
 - Printer share
 - Print server
- Configuration settings
 - Duplex
 - Orientation
 - Tray settings
 - Quality

Security

- User authentication
- Badging
- udit logs
- Secured prints
- · Network scan services
 - Email
 - SMB
 - Cloud services
- · utomatic document feeder (DF)/flatbed scanner
- Given a scenario, install and replace printer consumables.
 - - Imaging drum, fuser assembly, transfer belt, transfer roller, pickup rollers, separation pads, duplexing assembly
 - Imaging process: processing, charging, exposing, developing, transferring, fusing, and cleaning
 - Maintenance: Replace toner, apply maintenance kit, calibrate, clean

- - Ink cartridge, print head, roller, feeder, duplexing assembly, carriage belt
 - Calibration
 - Maintenance: Clean heads, replace cartridges, calibrate, clear jams
- Thermal
 - Feed assembly, heating element
 - Special thermal paper
 - Maintenance: Replace paper, clean heating element, remove debris
 - Heat sensitivity of paper

- Print head, ribbon, tractor feed
- Impact paper
- Maintenance: Replace ribbon, replace print head, replace paper
- 3-D printer
 - Filament
 - Resin
 - Print bed





·4.0 Virtualization and Cloud Computing

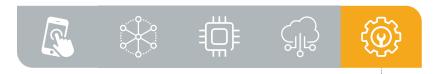
- 4.1 Summarize cloud-computing concepts.
 - Common cloud models
 - Private cloud
 - Public cloud
 - Hybrid cloud
 - Community cloud
 - Infrastructure as a service (laaS)
 - Software as a service (SaaS)
 - Platform as a service (PaaS)

- Cloud characteristics
 - Shared resources
 - Metered utilization
 - Rapid elasticity
 - High availability
 - File synchronization

- Desktop virtualization
 - Virtual desktop infrastructure (VDI) on premises
 - VDI in the cloud

- 4.2 Summarize aspects of client-side virtualization.
 - · Purpose of virtual machines
 - Sandbox
 - Test development
 - pplication virtualization
 - Legacy software/OS
 - Cross-platform virtualization
 - Resource requirements
 - · Security requirements





—5.0 Hardware and Network Troubleshooting

- 5.1 Given a scenario, apply the best practice methodology to resolve problems.
 - · Iways consider corporate policies, procedures, and impacts before implementing changes
 - 1. Identify the problem
 - Gather information from the user, identify user changes, and, if applicable, perform backups before making changes
 - Inquire regarding environmental or infrastructure changes
- 2. Establish a theory of probable cause (question the obvious)
 - If necessary, conduct external or internal research based on symptoms
- 3. Test the theory to determine the cause
 - Once the theory is confirmed, determine the next steps to resolve the problem
 - If the theory is not confirmed, re-establish a new theory or escalate

- 4. Establish a plan of action to resolve the problem and implement the solution
 - Refer to the vendor's instructions for guidance
- 5. Verify full system functionality and, if applicable, implement preventive measures
- 6. Document the findings, actions, and outcomes

- 5.2 Given a scenario, troubleshoot problems related to motherboards, R M, CPU, and power.
 - Common symptoms
 - Power-on self-test (POST) beeps
 - Proprietary crash screens (blue screen of death [BSOD]/ pinwheel)
- Black screen
- No power
- Sluggish performance
- Overheating
- Burning smell

- Intermittent shutdown
- pplication crashes
- Grinding noise
- Capacitor swelling
- Inaccurate system date/time





5.3 Given a scenario, troubleshoot and diagnose problems with storage drives and R ID arrays.

- Common symptoms
 - Light-emitting diode (LED) status indicators
 - Grinding noises
 - Clicking sounds

- Bootable device not found
- Data loss/corruption
- R ID failure
- Self-monitoring, nalysis, and Reporting Technology
- (S.M. .R.T.) failure
- Extended read/write times
- Input/output operations per second (IOPS)
- Missing drives in OS
- 5.4 Given a scenario, troubleshoot video, projector, and display issues.
 - Common symptoms
 - Incorrect data source
 - Physical cabling issues
 - Burned-out bulb

- Fuzzy image
- Display burn-in
- Dead pixels
- Flashing screen

- Incorrect color display
- udio issues
- Dim image
- Intermittent projector shutdown
- 5.5 Given a scenario, troubleshoot common issues with mobile devices.
 - Common symptoms
 - Poor battery health
 - Swollen battery
 - Broken screen

- Improper charging
- Poor/no connectivity
- Liquid damage
- Overheating

- Digitizer issues
- Physically damaged ports
- Malware
- Cursor drift/touch calibration





Given a scenario, troubleshoot and resolve printer issues.

- Common symptoms
 - Lines down the printed pages
 - Garbled print
 - Toner not fusing to paper
 - Paper jams
 - Faded print
 - Incorrect paper size

- Paper not feeding
- Multipage misfeed
- Multiple prints pending in queue
- Speckling on printed pages
- Double/echo images on the print
- Incorrect color settings
- Grinding noise

- Finishing issues
 - Staple jams
 - Hole punch
- Incorrect page orientation

Given a scenario, troubleshoot problems with wired and wireless networks.

- Common symptoms
 - Intermittent wireless connectivity
 - Slow network speeds
- Limited connectivity
- Jitter
- Poor Voice over Internet Protocol (VoIP) quality
- Port flapping
- High latency
- External interference



CompTI + Core 1 (220-1101) cronym List

The following is a list of acronyms that appear on the CompTI Core 1 (220-1101) exam. Candidates are encouraged to review the complete list and attain a working knowledge of all listed acronyms as part of a comprehensive exam preparation program.

uthentication, uthorization, and counting C Iternating Current CL ccess Control List DF utomatic Document Feeder ES dvanced Encryption Standard P ccess Point PFS pple File System PIP utomatic Private Internet Protocol ddressing PK dvanced RISC [Reduced Instruction Set Computer] Machine RP ddress Resolution Protocol T dvanced Technology Extended UP cceptable Use Policy BIOS Basic Input/Output System BYOD Biring Your Own Device C D Computers and Humans part C D Compact Disc Computer and Humans part C D Compact Disc Computer (Response) FIB (System PT) C Comp Code-Division Multiple ccess C C Computer (Response) FIB (System PT) C Comp Computer (Response) FIB (System PT) C Comp Code-Division Multiple ccess C C C Computer (Response) FIB (System PT) C C Computer (Response) FIB (System PT) C Compouter (Response) FIB (System PT) C Compouter (Response) FIB (System PT) C Compouter (Response) FIB (System PT) C COMPOUND (Response) FIB (System PT) C PTCH Completely utomated Public Turing Test to Tell Computers and Humans part C PTC Compact Disc FIB (System PT) C PTCH Compact Disc FIB (System PT) C PTCH Compact Disc FIB (System PT) C COMPOUND (Response) FIB (System PT) C COMPOUND (Response) FIB (System PT) C COMPOUND (Response) FIB (Response) FIB (Response) C PTCH Compact Disc FIB (System PT) C COMPOUND (Response) FIB (System PT) C PTCH Compact Disc FIB (System PT) C COMPOUND (Response) FIB (Blocation Table PT) C Compact Disc FIB (System PT) C FIB (Blocation Table PT) C Compact Disc FIB (System PT) C FIB (Blocation Table PT) C Compact Disc FIB (System PT) C FIB (Blocation Table PT) C Compact Disc FIB (System PT) C FIB (Blocation Table PT) C Compact Disc FIB (System PT) C FIB (Blocation Table PT) C Compact Disc FIB (System	cronym	Definition	cronym	Definition
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CL ccess Control List DF utomatic Document Feeder ES dvanced Encryption Standard P ccess Point PFS pple File System PIP utomatic Private Internet Protocol ddressing PK ndroid Package RM dvanced Risc [Reduced Instruction Set Computer] Machine RP ddress Resolution Protocol T dvanced Resolution Protocol T dvanced Technology tachment TM synchronous Transfer Mode TX dvanced Technology Extended UP cceptable Use Policy BIOS Basic Input/Output System BYOD Bring Your Own Device C D Computer-aided Design C PTCH Completely utomated Public Turing Test to Tell Computers and Humans part CD CDFS Compact Disc CDFS Compact Disc CDFS Compact Disc CDFS Compact Disc CDFS Computer Response Team CMD COMPONER CARPA CMD CMD COMPONER CARPA CMD	C		DM	Direct Memory ccess
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Computer] Machine RP ddress Resolution Protocol T dvanced Technology ttachment TM synchronous Transfer Mode TX dvanced Technology Extended UP cceptable Use Policy BIOS Basic Input/Output System BSOD Blue Screen of Death BYOD Bring Your Own Device C PTCH Computer-aided Design CP TCH Compact Disc CDFS Compact Disc CERT Compact Disc File System CERT Computer Emergency Response Team CERT COMD Compand Prompt CMO Compact Disc CPU Central Processing Unit CRL Certificate Revocation List DDOS Distributed Denial of Service BCC Error Correcting Code Error Correcting Code EFS Encrypting File System EMI Electromagnetic Interference ESD End-O-Life External Serial dvanced Technology ttachment EVL End-O-Life External Serial tvanced Technology ttachment EVL End-O-Life External Serial tvanced Tech		_	DVI-D	Digital Visual Interface-Digital
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DD05 Distributed Defind of Service	DC	Direct Current		·
H I Hardward betraction Layor		Distributed Denial of Service		
DDN Double Data Nate	DDR	Double Data Rate	H L	
DHCP Dynamic Host Configuration Protocol H V Hardware-assisted Virtualization	DHCP	Dynamic Host Configuration Protocol	HV	Hardware-assisted Virtualization



cronym	Definition	cronym	Definition
HCL	Hardware Compatibility List	MX	Mail Exchange
HDCP	High-bandwidth Digital Content Protection	N C	Network ccess Control
HDD	Hard Disk Drive	NT	Network ddress Translation
HDMI	High-Definition Multimedia Interface	ND	Non-disclosure greement
HSM	Hardware Security Module	NetBIOS	Networked Basic Input/Output System
HTML	Hypertext Markup Language	NetBT	NetBIOS over TCP/IP [Transmission Control
HTTP	Hypertext Transfer Protocol		Protocol/Internet Protocol]
HTTPS	Hypertext Transfer Protocol Secure	NFC	Near-field Communication
1/0	Input/Output	NFS	Network File System
laaS	Infrastructure as a Service	NIC	Network Interface Card
ICR	Intelligent Character Recognition	NTFS	New Technology File System
IDE	Integrated Drive Electronics	NVMe	Non-volatile Memory Express
IDS	Intrusion Detection System	OCR	Optical Character Recognition
IEEE	Institute of Electrical and Electronics	OLED	Organic Light-emitting Diode
	Engineers	ONT	Optical Network Terminal
IM P	Internet Mail ccess Protocol	OS	Operating System
IOPS	Input/Output Operations Per Second	PaaS	Platform as a Service
IoT	Internet of Things	PN	Personal rea Network
IP	Internet Protocol	PC	Personal Computer
IPS	Intrusion Prevention System	PCle	Peripheral Component Interconnect Express
IPS	In-plane Switching	PCL	Printer Command Language
IPSec	Internet Protocol Security	PE	Preinstallation Environment
IR	Infrared	PII	Personally Identifiable Information
IrD	Infrared Data ssociation	PIN	Personal Identification Number
IRP	Incident Response Plan	PKI	Public Key Infrastructure
ISO	International Organization for	PoE	Power over Ethernet
	Standardization	POP3	Post Office Protocol 3
ISP	Internet Service Provider	POST	Power-on Self-Test
ITX	Information Technology eXtended	PPP	Point-to-Point Protocol
KB	Knowledge Base	PRL	Preferred Roaming List
KVM	Keyboard-Video-Mouse	PSU	Power Supply Unit
LN	Local rea Network	PXE	Preboot Execution Environment
LC	Lucent Connector	R DIUS	Remote uthentication Dial-in User Service
LCD	Liquid Crystal Display	R ID	Redundant rray of Independent (or
LD P	Lightweight Directory ccess Protocol	D. M	Inexpensive) Disks
LED	Light-emitting Diode	R M	Random-access Memory
M C	Media ccess Control/Mandatory ccess	RDP	Remote Desktop Protocol
NA NA	Control	RF	Radio Frequency
M M	Mobile pplication Management	RFI	Radio-Frequency Interference
M N	Metropolitan rea Network	RFID	Radio-Frequency Identification
MBR	Master Boot Record	RJ11	Registered Jack Function 11
MDM	Mobile Device Management	RJ45	Registered Jack Function 45
MF MFD	Multifactor uthentication Multifunction Device	RMM RTO	Remote Monitoring and Management
	Multifunction Printer	SaaS	Recovery Time Objective Software as a Service
MFP MMC	Microsoft Management Console	SadS S N	Storage rea Network
MOU	Memorandum of Understanding	SS	Serial ttached SCSI [Small Computer
MSDS	Material Safety Data Sheet	5 5	System Interface]
MSR	Microsoft Remote ssistance	S T	Serial dvanced Technology ttachment
1.101/	THE COURT NETHOLE SSISTAILE	J 1	serial avancea recrinology tracfillient



cronym	Definition	cronym	Definition
SC	Subscriber Connector	TLS	Transport Layer Security
SC D	Supervisory Control and Data cquisition	TN	Twisted Nematic
SCP	Secure Copy Protection	TPM	Trusted Platform Module
SCSI	Small Computer System Interface	U C	User ccount Control
SDN	Software-defined Networking	UDP	User Datagram Protocol
SFTP	Secure File Transfer Protocol	UEFI	Unified Extensible Firmware Interface
SIM	Subscriber Identity Module	UNC	Universal Naming Convention
SIMM	Single Inline Memory Module	UPnP	Universal Plug and Play
S.MR.T.	Self-monitoring nalysis and Reporting	UPS	Uninterruptible Power Supply
	Technology	USB	Universal Serial Bus
SMB	Server Message Block	UTM	Unified Threat Management
SMS	Short Message Service	UTP	Unshielded Twisted Pair
SMTP	Simple Mail Transfer Protocol	\vee	Vertical lignment
SNMP	Simple Network Management Protocol	VDI	Virtual Desktop Infrastructure
SNTP	Simple Network Time Protocol	VG	Video Graphics rray
SODIMM	Small Outline Dual Inline Memory Module	VL N	Virtual L N [Local rea Network]
SOHO	Small Office/Home Office	VM	Virtual Machine
SPF	Sender Policy Framework	VNC	Virtual Network Computer
SQL	Structured Query Language	VoIP	Voice over Internet Protocol
SR M	Static Random-access Memory	VPN	Virtual Private Network
SSD	Solid-State Drive	VR M	Video Random-access Memory
SSH	Secure Shell	WN	Wide rea Network
SSID	Service Set Identifier	WEP	Wired Equivalent Privacy
SSL	Secure Sockets Layer	WISP	Wireless Internet Service Provider
SSO	Single Sign-on	WL N	Wireless L N [Local rea Network]
ST	Straight Tip	WMN	Wireless Mesh Network
STP	Shielded Twisted Pair	WP	WiFi Protected ccess
T C CS	Terminal ccess Controller ccess-Control	WW N	Wireless Wide rea Network
	System	XSS	Cross-site Scripting
TCP	Transmission Control Protocol		
TCP/IP	Transmission Control Protocol/Internet		
	Protocol		
TFTP	Trivial File Transfer Protocol		
TKIP	Temporal Key Integrity Protocol		



CompTI + Core 1 (220-1101) Proposed Hardware and Software List

**CompTI has included this sample list of hardware and software to assist candidates as they prepare for the + Core 1 (220-1101) exam. This list may also be helpful for training companies that wish to create a lab component to their training offering. The bulleted lists below each topic are sample lists and are not exhaustive.

Equipment

- pple tablet/smartphone
- ndroid tablet/smartphone
- Windows tablet
- Chromebook
- Windows laptop/Mac laptop/Linux laptop
- Windows desktop/Mac desktop/ Linux desktop
- Windows server with ctive
 Directory and Print Management
- Monitors
- Projectors
- · SOHO router/switch
- · ccess point
- VoIP phone
- Printer
 - Laser/inkjet
 - Wireless
 - 3-D printer
 - Thermal
- Surge suppressor
- Uninterruptible power supply (UPS)
- Smart devices (IoT devices)
- · Server with a hypervisor
- · Punchdown block
- · Patch panel
- Webcams
- Speakers
- Microphones

Spare parts/hardware

- Motherboards
- R M
- Hard drives
- Power supplies
- Video cards
- Sound cards
- Network cards
- Wireless NICs
- Fans/cooling devices/heat sink
- CPUs
- ssorted connectors/cables
 - USB
- HDMI
- DisplayPort
- DVI
- VG
- dapters
 - Bluetooth adapter
- Network cables
- Unterminated network cable/ connectors
- Iternating current (C) adapters
- · Optical drives
- Screws/standoffs
- Cases
- Maintenance kit
- Mice/keyboards
- Keyboard-video-mouse (KVM)
- Console cable
- SSD

Tools

- Screwdriver
- Multimeter
- · Wire cutters
- Punchdown tool
- Crimper
- · Power supply tester
- Cable stripper
- · Standard technician toolkit
- Electrostatic discharge (ESD) strap
- Thermal paste
- Cable tester
- · Cable toner
- WiFi analyzer
- S T to USB connectors

Software

- Operating systems
 - Linux
 - Chrome OS
 - Microsoft Windows
 - macOS
 - ndroid
 - iOS
- Preinstallation environment (PE) disk/live compact disc (CD)
- ntivirus software
- · Virtualization software
- nti-malware
- Driver software

