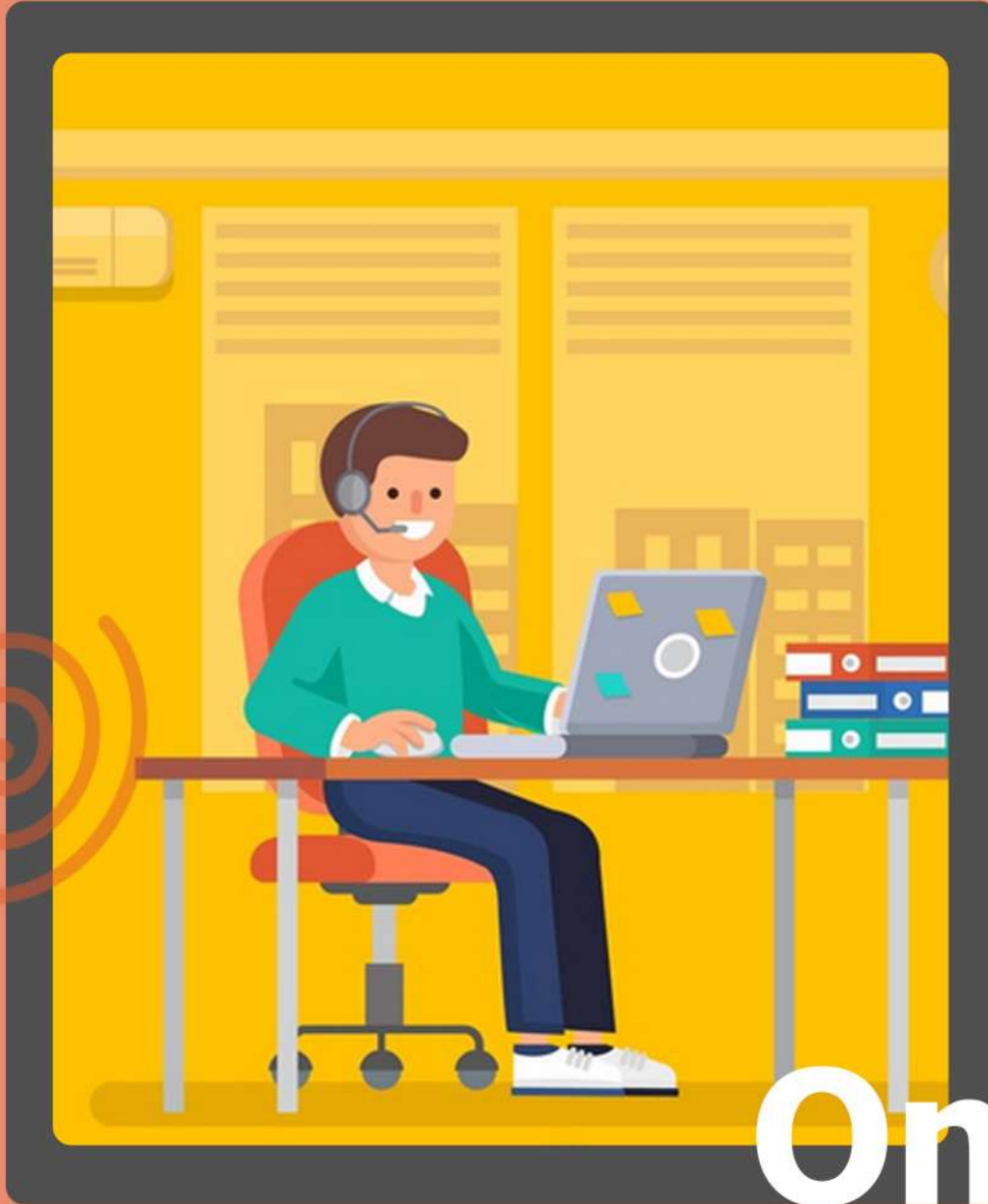


Palo Alto Networks Certificated Cybersecurity Entry-Level Technician



Online Course



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Course Modules

1. Fundamentals of Cybersecurity

- Distinguish between Web 2.0 and 3.0 applications and services
- Describe port-scanning methodologies and their impact
 - Nonstandard ports
 - Identify applications by their port number
- Recognize applications used to circumvent port-based firewalls
- Differentiate between common cloud computing service models
 - SaaS
 - PaaS
 - IaaS
- Describe the business processes of supply-chain management
- Describe the vulnerabilities associated with data being stored
 - Describe roles within a SaaS environment
 - Describe security controls for SaaS applications
- Describe the impact of governance, regulation, and compliance
 - Differentiate between compliance and security
 - Identify major cybersecurity laws and their implications
- Describe the tactics of the MITRE ATT&CK framework
- Identify a leading indicator of a compromise
 - Describe how to use CVE
 - Describe how to use CVS



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- Identify the different attacker profiles and motivations
 - Describe the different value levels of the info that needs to be protected
- Describe the different phases and events of the cyberattack lifecycle
 - Describe the purpose of command and control (C2)
- Identify the characteristics, capabilities, and appropriate actions
- Differentiate between vulnerabilities and exploits
 - Differentiate between various business email compromise attacks
 - Identify different methodologies for social engineering
 - Identify the chain of events that result from social engineering
- Identify what chain of events follows an attack
- Differentiate between the functional aspects of bots and botnets
 - Describe the type of IoT devices that are part of a botnet attack
- Differentiate the TCP/IP roles in DDoS attacks
 - Differentiate between DoS and DDoS
- Describe advanced persistent threats
- Describe risks with Wi-Fi networks
 - Differentiate between common types of Wi-Fi attacks
 - Describe how to monitor your Wi-Fi network
- Describe perimeter-based network security
 - Identify the types of devices used in perimeter defense
- Describe the Demilitarized Zone (DMZ)



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- Describe the transition from a trusted network to an untrusted network
 - Differentiate between North-South and East-West zones
- Describe Zero Trust
 - Identify the benefits of the Zero Trust model
 - Identify the design principles for Zero Trust
 - Describe a microperimeter
 - Differentiate between Trust and Untrust zones
- Describe the integration of services for network, endpoint, & cloud
- Identify the capabilities of an effective Security Operating Platform
 - Describe the components of the Security Operating Platform

2. Network Security Components

- Differentiate between hubs, switches, and routers
 - Given a network diagram, Identify the icons for hubs, switches..
- Describe the use of VLANs
- Differentiate between routed and routing protocols
- Differentiate between static and dynamic routing protocols
 - Differentiate between link state and distance vector
- Identify the borders of collision and broadcast domains



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- Differentiate between different types of area networks
 - WAN
 - LAN
- Describe the advantages of SD-WAN
- Describe the purpose of the Domain Name System (DNS)
 - Describe how DNS record types are used
 - Identify a fully qualified domain name (FQDN)
 - Describe the DNS hierarchy
- Differentiate between categories of IoT devices
 - Identify the known security risks and solutions associated with IoT
- Identify IoT connectivity technologies
- Differentiate between IPv4 and IPv6 addresses
 - Describe binary-to-decimal conversion
 - Describe IPv4 CIDR notation
 - Describe IPv4 classful subnetting
 - Given a scenario, identify the proper subnet mask
 - Describe the purpose of subnetting
 - Describe the structure of IPv4 and IPv6
 - Describe the purpose of IPv4 and IPv6 addressing
- Describe the purpose of a default gateway
- Describe the role of NAT



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- Describe OSI and TCP/IP models
 - Identify the order of the layers of both OSI and TCP/IP models
 - Compare the similarities of some OSI and TCP/IP layers
 - Identify the protocols and functions of each OSI layer
- Describe the data-encapsulation process
 - Describe the PDU format used at different layers
- Identify the characteristics of various types of network firewalls
 - Traditional firewalls
 - Next-generation firewalls
 - Differentiate between NGFWs and traditional firewalls
- Describe the application of NGFW deployment options
- Differentiate between intrusion detection systems & intrusion prevention
 - Differentiate between knowledge-based & behavior-based systems
- Describe virtual private networks
 - Describe when to use VPNs
- Differentiate between the different tunneling protocols
- Describe the purpose of data loss prevention
 - Classify different types of data (e.g., sensitive, inappropriate)
- Differentiate the various types of security functions



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- Describe endpoint security standards
 - Describe the advantages of endpoint security
 - Describe host-based intrusion detection/prevention systems
 - Differentiat betwn signature-based & behavioral-based malware
 - Describe application block and allow listing
 - Describe the concepts of false-positive and false-negative alerts
 - Describe the purpose of anti-spyware software
- Identify differences in managing wireless devices compard to other
- Describe the purpose of identity and access management
 - Single- and multi-factor Authentication
 - Separation of duties and impact on privileges
 - RBAC, ABAC, DAC, and MAC
 - User profiles
- Integration of NGFWs with the cloud, networks, & endpoints
- Describe App-ID, User-ID, and Content-ID
- Describe Palo Alto Networks firewall subscription services
 - WildFire
 - URL Filtering
 - Threat Prevention
 - DNS Security
 - IoT Security
 - SD-WAN
 - Advanced Threat Prevention



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- Advanced URL Filtering
- GlobalProtect
- Enterprise DLP
- SaaS Security Inline
- Virtual Systems
- Describe network security management
 - Identify the deployment modes of Panorama
 - Describe the three components of Best Practice Assessment



3. Cloud Technologies

- Describe the NIST cloud service and deployment models
- Recognize and list cloud security challenges
 - Describe the vulnerabilities in a shared community environment
 - Describe cloud security responsibilities
 - Describe cloud multitenancy
 - Differentiate between security tools in various cloud environments
 - Identity and access management controls for cloud resources
 - Describe different types of cloud security alerts and notifications
- Identify the 4 Cs of cloud native security
- Describe the purpose of virtualization in cloud computing
 - Describe the types of hypervisors
 - Describe characteristics of various cloud providers
 - Describe economic benefits of cloud computing and virtualization



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- Describe the security implications of virtualization
- Explain the purpose of containers in application deployment
 - Differentiate containers versus virtual machines
 - Describe Container as a Service
 - Differentiate a hypervisor from a Docker Container
- Describe how serverless computing is used
- Describe DevOps
- Describe DevSecOps
- Illustrate the continuous integration/continuous delivery pipeline
- Governance & compliance related to deployment of SaaS apps
 - Describe security compliance to protect data
 - Describe privacy regulations globally
 - Describe security compliance betwn local policies and SaaS apps
- Describe the cost of maintaining a physical data center
- Differt betwee=n data-center security weaknesses of traditional solns
- Differentiate between east-west and north-south traffic patterns
- Describe the four phases of hybrid data-center security
- How data centers can transform their operatns incrementally
- Describe the cloud-native security platform
- Identify the four pillars of Prisma Cloud application security
- Describe the concept of SASE



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- Describe the SASE layer
 - Describe sanctioned, tolerated, and unsanctioned SaaS apps
 - List how to control sanctioned SaaS usage
- Describe the network-as-a-service layer
- Describe how Prisma Access provides traffic protection
- Describe Prisma Cloud Security Posture Management (CSPM)

4. Elements of Security Operations

- Main elements included in the development of SOC business objectives
- Describe the components of SOC business management & operations
- List the six essential elements of effective security operations
- Describe the four SecOps functions
 - Identify
 - Investigate
 - Mitigate
 - Improve
- Describe SIEM
- Purpose of security orchestration, automation, & response (SOAR)
- The analysis tools used to detect evidence of a security compromise
- Describe how to collect security data for analysis
- Use of analysis tools within a security operations environment



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- The responsibilities of a security operations engineering team
- Cortex platform in a security operatns environment & the purpose
- How Cortex XSOAR improves security operations efficiency
- Describe how Cortex Data Lake improves security operatns visibility
- How XSIAM can be used to accelerate SOC threat response



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