



Network Defense Essentials

Exam Blueprint

S. No.	Domains	Sub Domains	Domain %
1	Network Security Fundamentals	Fundamentals of Network Security	6
		Network Security Protocols	
2	Identification, Authentication, and Authorization	Access Control Principles, Terminologies, and Models	8
		Identity and Access Management (IAM) Concepts	
2	Network Security Controls - Administrative Controls	Regulatory Frameworks, Laws, and Acts	8
		Design and Develop Security Policies	
		Conduct Different Types of Security and Awareness Training	
4	Network Security Controls - Physical Controls	Importance of Physical Security	8
		Physical Security Controls	
		Workplace Security	
		Environmental Controls	
5	Network Security Controls - Technical Controls	Types of Network Segmentation	16
		Types of Firewalls and their Role	
		Types of IDS/IPS and their Role	
		Types of Honeypots	
		Types of Proxy Servers and their Benefits	
		Fundamentals of VPN and its importance in Network Security	

		Security Incident and Event Management (SIEM)	
		User Behavior Analytics (UBA)	
		Antivirus/Anti-malware Software	
6	Virtualization and Cloud Computing	Virtualization Essential Concepts and OS Virtualization Security	8
		Cloud Computing Fundamentals	
		Insights of Cloud Security and Best Practices	
7	Wireless Network Security	Wireless Network Fundamentals	8
		Wireless Network Encryption Mechanisms	
		Types of Wireless Network Authentication Methods	
		Implement Wireless Network Security Measures	
8	Mobile Device Security	Mobile Device Connection Methods	8
		Mobile Device Management Concepts	
		Common Mobile Usage Policies in Enterprises	
		Security Risks and Guidelines Associated with Enterprises Mobile Usage Policies	
		Implement Enterprise-level Mobile Security Management Solutions	
		Implement General Security Guidelines and Best Practices on Mobile Platforms	
9	IoT Device Security	IoT Devices, Application Areas, and Communication Models	8
		Security in IoT-enabled Environments	
10	Cryptography and PKI	Cryptographic Techniques	8
		Cryptographic Algorithms	
		Cryptography Tools	
		Public Key Infrastructure (PKI)	
11	Data Security	Data Security and its Importance	8
		Security Controls for Data Encryption	
		Data Backup and Retention	

		Data Loss Prevention Concepts	
12	Network Traffic Monitoring	Need and Advantages of Network Traffic Monitoring	6
		Determine Baseline Traffic Signatures for Normal and Suspicious Network Traffic	
		Perform Network Monitoring for Suspicious Traffic	