

5.0 Security Fundamentals

Security Concepts

- 5.1 Define key security concepts (threats, vulnerabilities, exploits, and mitigation techniques)

Objective: 5.1
Learning Objective:
Title: Define Key Security Concepts
Description: A CCNA Professional should be familiar **with key security** concepts. You will learn how **to define** the **following terms in the context of security**: threats, vulnerabilities, exploits **and** mitigation techniques.

Security Programs

- 5.2 Describe security program elements (user awareness, training, and physical access control)

Objective: 5.2
Learning Objective:
Title: Identify Security Awareness **Program** Elements
Description: Every company should have a security awareness **program**. Find **out** what it takes to make an effective security **program** for the non-security individual.

- 5.4 Describe security password policies elements, such as management, complexity, and password alternatives (multifactor authentication, certificates, and biometrics)

Objective: 5.4
Learning Objective:
Title: Identify Elements of Password **Policy**
Description: **In** business, security begins **and** ends with policy. You will learn about one example of a pervasive **policy** dealing with end-users **and** how they access resources across the network.

- 5.8 Differentiate authentication, authorization, and accounting concepts
- 5.3 Configure device access control using local passwords

Objective: 5.3 **and** 5.8
Learning Objective:
Title: Identify Elements of **AAA** security
Description: Password security is **no** longer enough **to** help secure our **network** devices **or** control access. You will learn about what is included **in AAA** security: Authentication, Authorization **and** Accounting.

Configure security controls

- 5.5 Describe remote access and site-to-site VPNs

Objective: 5.5
Learning Objective:
Title: Differentiate VPN Types
Description: VPNs are prevalently used **in** business **to** establish a secure **connection** across unknown networks. You will learn **to** differentiate the use case **for** each **type** of VPN.

- 5.6 Configure and verify access control lists

Objective: 5.6
Learning Objective:
Title: **Configure and verify ACLs**
Description: