

# Network Security Foundation

Learn via: **Classroom / Virtual Classroom / Online**

Duration: **3 Gün**

<https://bilginc.com/tr/egitim/network-security-foundation-71-egitimi/>

## Overview

Organisations must consider securing their systems and platforms that are linked across enterprise-wide and virtual private networks, notwithstanding connect mobile users. In this course, delegates will learn about the fundamental security concepts, security policy management and end-to-end network security. This course helps delegates to analyse the risks to networks and the appropriate countermeasures (firewalls and intrusion detection) to reduce exposure to network attacks and malicious software.

This course provides the essential network security foundation training needed to address the cyber threat lifecycle.

## Prerequisites

There are no specific prerequisites for this course, however, participants are expected to have a general understanding of cyber threats and risk management. This course does not teach TCP/IP or OSI model topics in depth.

## What You Will Learn

- Networking Basics
- Fundamental Security Concepts
- Security Policy Management
- AD Group Policy
- Tunnelling & End to End Security
- Firewalls and Intrusion Detection
- Attacks and Malicious Software

## Outline

### **Module 1 - Recap Networking Basics**

- OSI Model
- TCP/IP

### **Module 2 - Fundamental Security Concepts**

- Encryption
- Hashing
- Access Control
- Digital Signature
- Authentication, Authorization and Accounting
- Secure planning
- Policies and mechanisms

### **Module 3 - Security Policy Management- Active Directory Group Policy (GPOs)**

- Introducing Group Policy
- Containers
- Templates
- GPO
- Group Policy Management Console (GPMC)
- Group Policy Implementation

#### **Module 4 - Tunnelling and End-to-End Security**

- Security and network layers
- IPSEC
- SSL / TLS
- Flaws and comparisons
- SSH

#### **Module 5 - Firewalls and Intrusion Detection**

- Firewalls
- Packet filtering,
- State full inspection
- Application gateways
- ACL's.

#### **Module 6 - Attacks and Malicious Software**

- Malware
- DDOS
- SQL Injection
- Cross Site Scripting