Course Overview

HP TippingPoint Next Generation Firewall ASE Security Training

The Next Generation Firewall (NGFW) ASE Training Course is a hands-on, five day instructor-led course that teaches expert-level concepts and best practices necessary for implementation planning, installation, configuration, security management, and system administration of the TippingPoint NGFW solution. Through interactive lectures and hands-on labs, students will learn to implement the NGFW and the Security Management System (SMS) using the standard interface modes. Students will also acquire in-depth expert knowledge of how to tune and configure a TippingPoint NGFW for optimum performance on their network and learn advanced configuration management of multiple NGFW's using the Security Management System.

Audience

Network engineers, network administrators, network technicians, security administrators, systems engineers, system administrators, and network security strategies and planning architects.

Certifications and Exams

- HP ASE – TippingPoint Next Generation Firewall Security Products V2
- HP0-M207P

Prerequisites

HP ASE – TippingPoint Security V1 or HP ATP – TippingPoint Next Generation Firewall Security Products V1

Course title:	HP TippingPoint Next Generation Firewall ASE Security Training
Product ID:	TP3C0059
Category/Subcategory: HP Networking	
Course Length:	Training is five days from 8 a.m. – 5 p.m.
Level:	Expert
Delivery Language:	English
To order visit: http://www.hpenterprisesecurity.com/university	

Course Objectives

Upon completion of this course, the student will:

- Define basic network concepts
- Identify HP Tipping NGFW devices and hardware
- Explain NGFW setup and configuration
- Describe Firewall policy rules
- Discuss application management and filters
- Setup and configure the SMS
- Explain the purpose of DV Labs and Inspection Profiles
- Demonstrate SMS Management

- Demonstrate transparent mode deployment
- Describe NAT concepts supported by the NGFW
- Explain user management and authorization
- Produce a digital vaccine using DV Toolkit
- Describe quarantine concepts and their use in mitigating attacks
- Discuss VPN concepts and configurations
- Describe and manage SMS Responder functionality
- Describe and configure HA and Clustering
- Identify NGFW architecture and troubleshooting methods

Detailed course outline

Topics Covered

Review of Networking Concepts
- Theoretical Models
- OSI and TCP/IP models
- Routing Concepts

Intro to NGFW
- TippingPoint Product Portfolio
- Product Architecture
- Management Options
- NGFW Setup and Configuration

NGFW Deployment
- Deployment Modes
- Interface configuration
- Management Deployment Options
- Routing Configurations

Security Zones
- Security Zone Types
- Zone Properties
- Benefits
- Security zone creation

Device Configuration and Firewall Policies in SMS
- NGFW to SMS Communication
- Device Configuration
- Network Configuration
- Layer 2 Fallback
- Link Down Synchronization
- Shared Settings
- TOS Updates
- NGFW System Snapshots
- NGFW Password Recovery
- Firewall Profiles and Firewall Rules
- Application Groups

DV Labs and Inspection Profiles
- Digital Vaccines
- Digital Vaccine Online Tools
Inspection Profiles
- Basic Profile Management
- Action Sets
- Reference Policies

Firewall rules
- Firewall Policy Model
- Zone-based Firewall Rule Management
- Zone-based Firewall Rules
- Services and Protocols in Zone-based Firewall Rules
- Recommendations for Zone-based Firewall Rules
- Creating Zone-based Firewall Rules
- Zone-based Firewall Rules Application

Application Management
- The Application Landscape
- Application Intelligence System
- Application Filters
- Application Filter Categories
- Firewall Rule Processing Flow
- Application Groups

SMS Setup and Configuration
- Deploying SMS
- SMS Management of the NGFW
- SMS Administration
- SMS Authentication
- SMS Named Resources

Transparent Mode
- Introduction to Transparent Mode
- Bridge Configuration
- IPS Filter Override

Network Address Translation
- NAT Overview
- Routed Deployment
- Source and Destination NAT Operation
- Monitoring and Verifying NAT Operation
- ALG Support

User Management
- User Authentication and Authorization
- Captive Portal
- Reputation DV

Detailed course outline
Topics Covered

SMS Management
- SMS Dashboard
- SMS Maintenance
- SMS Database Backup
- SMS High Availability
- SMS Event Management
- SMS External Database Settings
- SMS API
- SMS Events and Reports

Virtual Private Networking
- NGFW Supported VPN Functionality
- Client Compatibility
- IPsec Architecture
- IKE Security Protocols
- VPN Policy
- IPsec Verification

Digital Vaccine Toolkit
- DV Toolkit
- Creating a New Filter
- DVT Filter Payload
- DVT Package Management
- DVT Testing
- DVT Converter Tool

NGFW Quarantine
- Quarantine Concepts
- Quarantine Action Set
- Quarantine Monitoring
- Advanced DDoS
- Symmetric Mode

SMS Responder
- SMS Responder Policy
- SMS Responder Configuration
- SMS Responder Correlation and Thresholding
- Custom Response Configuration

Performance, HA, and Clustering
- Components of HA
- Components of a Failover Group
- Maintenance and Performance
- NGFW Platform Architecture
- Deployment Scenarios
- Optimization
- Performance Monitoring

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- More than 30 years of Education Consulting

For more information

Please contact HP TippingPoint Education for additional information – **tippingpoint.training@hp.com**