

## Cyberoam Certified Network & Security Expert



CCNSE Certification Course is meant for CCNSP-certified professionals to advance their career. It provides them with the expertise in deploying Cyberoam security in complex scenarios for enterprise networks. Course participants will learn about advanced debugging and troubleshooting issues and deepen their understanding of Cyberoam UTM's identity-based architecture.

Hands-on lab sessions allow participants to gain direct exposure to events that take place in a Cyberoam enterprise set-up, product installation, integration into a network, configuration for various Cyberoam features such as anti-virus, anti-spam, content filtering, VPN, IPS, high availability etc. and support / troubleshooting issues.

CCNSE is the next immediate step in Cyberoam's career certifications ladder, an advanced qualifications for CCNSP-certified professionals to demonstrate their expertise in complex. Cyberoam security deployments for the enterprise segment, learn about advanced debugging and troubleshooting issues and deepen their understanding of Cyberoam UTM's identity-based architecture, on top of what they learnt in CCNSP.

Hands-on lab sessions allow the students to gain direct exposure to events that take place in a Cyberoam enterprise set-up – product installation, integration into the network, configuration for various Cyberoam features such as anti-virus, anti-spam, VPN, IPS, High Availability etc. and support/troubleshooting issues.

### Training Pre-requisites:

CCNSP certified with valid certification status

Cyberoam deployments experience with minimum 10 deployments

### CCNSE syllabus

#### Cyberoam Architecture

- Hardware Architecture
- Software Architecture

#### Advanced and complex product deployment scenarios

- Deployment Modes
- Web Proxy Scenarios

#### Hyderabad:

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- VLAN Scenarios
- Asymmetric Routing Scenarios

#### **Advanced authentication and Identity Based Policies**

- Authentication Concept & Type of Authentication
- Integration with External Authentication Servers
- Clientless Single Sign On Concept & Practical
- Thin Client based Authentication Concept & Practical
- Role Based Authentication Control for Web Management

#### **Advanced concepts and configuration of various modules**

- System Management
- Firewall
- Content Filtering
- Antivirus and Antispam Configuration & Tuning
- IPS
- Module 6 Advanced VPN configuration for complex deployments
- Cyberoam VPN Features
- VPN Policies
- Advanced VPN Deployments
- VPN Failover concept & practical

#### **High Availability**

- Overview & Concept
- Active-Passive Deployment
- Active-Active Deployment

#### **Routing**

- Basics of Routing
- Cyberoam Routing Features
- Static Routing
- Policy Based Routing

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- Dynamic Routing
- Multicast Forwarding
- IPv6 Routing & Forwarding

#### Troubleshooting & Debugging

- Traffic debugging & monitoring
- Web Proxy Debugging
- Logging via Event Viewer
- Diagnostic Tools
- Troubleshooting

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