

**Course Outline:** 2824, Implementing Microsoft Internet Security and Acceleration Server 2004

**Learning Method:** Instructor-led Classroom Learning

**Duration:** 5.00 Day(s)/ 40 hrs

**Overview:**

This five-day instructor-led course provides students with the knowledge and skills to deploy and manage Microsoft Internet Security and Acceleration (ISA) Server 2004 as part of a larger security infrastructure. The course introduces security concepts unique to ISA Server 2004 and provides best practices for their implementation. This course includes information on both the Standard Edition and Enterprise Edition of ISA Server 2004.

**Who Should Attend:**

The audience will be IT Professionals who are responsible for implementing network and perimeter security measures, including Internet firewalls, application layer filters, and screened networks. They will also implement caching servers and additional mechanisms to protect public-facing Web servers. These individuals will have a need to simplify ongoing management, reduce support costs and prevent security breaches.

**At Course Completion:**

After completing this course, students will gain the skills to:

- Describe the functionality provided by ISA Server 2004, and explain valid deployment scenarios for ISA Server 2004.
- Install and maintain ISA Server 2004, and install and configure ISA Server clients.
- Configure secure access to Internet resources for internal network clients using ISA Server 2004.
- Configure ISA Server 2004 as a firewall between the Internet and the internal network.
- Configure secure access to internal network resources for Internet clients who are using Web and server publishing rules.
- Configure ISA Server to provide secure access to Exchange Server for servers and clients located on the Internet.
- Implement application and Web filters on ISA Server 2004.
- Implement a virtual private network for remote clients and remote networks using ISA Server 2004.
- Implement Web proxy caching on ISA Server 2004.

**Phone: +357 70002770**  
[www.computrain.com.cy](http://www.computrain.com.cy)



- Plan an ISA Server 2004 Enterprise Edition deployment and install ISA Server 2004 Enterprise Edition.
- Implement ISA Server 2004 Enterprise Edition in a back-to-back firewall scenario.
- Implement ISA Server 2004 Enterprise Edition in a site-to-site VPN scenario.

**Outline:**

**Module 1: Overview of Microsoft ISA Server 2004**

**Lessons**

- Introducing ISA Server 2004
- Deployment Scenarios for ISA Server 2004

- Advanced Firewall Client Configuration
- Securing ISA Server 2004
- Maintaining ISA Server 2004

**Lab : Lab A: Installing and Maintaining ISA Server 2004**

**Lab : Lab A: Introducing ISA Server 2004**

- Designing an ISA Server Deployment at Contoso Pharmaceuticals
- Designing an ISA Server Deployment at Blue Yonder Airlines

- Performing an Unattended Installation of ISA Server 2004
- Migrating an ISA Server Configuration
- Securing ISA Server 2004

**Module 2: Installing and Maintaining ISA Server 2004**

**Lessons**

- Installing ISA Server 2004
- Choosing ISA Server Clients
- Installing and Configuring Firewall Clients

**Module 3: Enabling Access to Internet Resources**

**Lessons**

- ISA Server 2004 as a Proxy Server
- Configuring Multi-Networking on ISA Server

Phone: +357 70002770  
[www.computrain.com.cy](http://www.computrain.com.cy)



- Configuring Access Rule Elements
- Configuring Access Rules for Internet Access

**Lab : Lab A: Enabling Access to Internet Resources**

- Configuring ISA Server Access Rule Elements
- Configuring ISA Server Access Rules
- Testing ISA Server Access Rules

**Module 4: Configuring ISA Server 2004 as a Firewall**

**Lessons**

- Using ISA Server as a Firewall
- Examining Perimeter Networks and Templates
- Configuring System Policies
- Configuring Intrusion Detection and IP Preferences

**Lab : Lab A: Configuring ISA Server as a Firewall**

- Restoring Firewall Access Rules
- Modifying the ISA Server System Policy
- Testing the Policy Modifications

**Module 5: Configuring Access to Internal Resources**

**Lessons**

- Introduction to Publishing
- Configuring Web Publishing
- Configuring Secure Web Publishing
- Configuring Server Publishing
- Configuring ISA Server Authentication

**Lab : Lab A: Configuring Access to Internal Resources**

- Configuring ISA Server Authentication and Secure Publishing
- Testing the ISA Server Configuration

**Module 6: Integrating ISA Server 2004 and Microsoft Exchange Server**

**Lessons**

- Issues in E-Mail Security
- Configuring ISA Server to Secure SMTP Traffic
- Configuring ISA Server to Secure Web Client Connections
- Configuring ISA Server to Secure Client Connections

**Lab : Lab A: Integrating ISA Server 2004 and Microsoft Exchange Server**

Phone: +357 70002770  
[www.computrain.com.cy](http://www.computrain.com.cy)



- Enabling RPC over HTTP Client Connections
- Configuring a Forms-Based Authentication for Microsoft Outlook Web Access

- Configuring Virtual Private Networking for Remote Sites
- Configuring VPN Quarantine Control Using ISA Server 2004

### Module 7: Advanced Application and Web Filtering

#### Lessons

- Advanced Application and Web Filtering Overview
- Configuring HTTP Web Filters
- Configuring Additional Application and Web Filters

#### Lab : Lab A: Advanced Application and Web Filtering

- Identifying an Application Method and Signature
- Modifying the HTTP Web Filter

### Module 8: Configuring Virtual Private Network Access for Remote Clients and Networks

#### Lessons

- Virtual Private Networking Overview
- Configuring Virtual Private Networking for Remote Clients

### Module 9: Implementing Caching to Improve Browsing Performance

#### Lessons

- Caching Overview
- Configuring General Cache Properties
- Configuring Cache Rules
- Configuring Content Download Jobs

#### Lab : Lab A: Configuring Caching on ISA Server 2004

- Testing and Monitoring ISA Server Caching

### Module 10: Monitoring ISA Server 2004

#### Lessons

- Monitoring Overview
- Configuring Alerts
- Configuring Session Monitoring
- Configuring Logging
- Configuring Reports
- Monitoring Connectivity

Phone: +357 70002770  
[www.computrain.com.cy](http://www.computrain.com.cy)



- Monitoring Services and Performance

**Lab: Lab A: Configuring Caching on ISA Server 2004**

- Exercise 1: Testing the Alerts Feature
- Exercise 2: Testing the Reporting Feature
- Exercise 3: Testing the Connectivity Monitoring Feature

**Module 11: Implementing ISA Server 2004 Enterprise Edition**

**Lessons**

- Overview of ISA Server 2004 Enterprise Edition
- Planning an ISA Server 2004 Enterprise Edition Deployment
- Implementing ISA Server 2004 Enterprise Edition

**Module 12: Implementing ISA Server 2004 Enterprise Edition: Back-to-Back Firewall Scenario**

**Lessons**

- Implementing a Back-to-Back Firewall Scenario

**Lab : Lab A: Implementing the Back-to-Back Firewall Scenario**

- Exercise 1: Enabling Network Load Balancing for the Main\Front-End Array
- Exercise 2: Configuring the Front-End Array Server
- Exercise 3: Configuring Firewall Rules for Resource Access

**Module 13: Implementing ISA Server 2004 Enterprise Edition: Site-to-Site VPN Scenario**

**Lessons**

- Implementing the Site-to-Site VPN Scenario

**Lab : Lab A: Implementing ISA Server Enterprise Edition**

- Exercise 1: Enabling NLB and CARP for the Main/Front-End Array
- Exercise 2: Configuring the Main-Office Array for a Site-to-Site VPN
- Exercise 3: Deploying ISA Server Services in a Remote Site
- Exercise 4: Configure the Remote Site for a Site-to-Site VPN

Phone: +357 70002770  
[www.computrain.com.cy](http://www.computrain.com.cy)

