

# Course Outline



Tel: +44 (0) 118 979 4000 Fax: +44 (0) 118 979 4000

Email: [training@ptr.co.uk](mailto:training@ptr.co.uk) Web: [www.ptr.co.uk](http://www.ptr.co.uk)

## Exchange Server 2000 System Administration

### Course Description:

Students will learn how to install, configure, and manage a Microsoft Exchange 2000 Server environment. They will create and manage storage groups and stores, recipient objects, and public folders. They will also configure SMTP, message routing, Internet protocols, and instant messaging. In addition, students will use Outlook Web Access to send email messages.

### Pre-requisites:

To ensure your success, we recommend you first take the following PTR courses or have equivalent knowledge:

Windows 2000; Network and Operating System & Networking Essentials  
Windows 2000: Professional & Server Support  
Windows 2000: Directory Services Design, Implementation and Administration

### Course Content:

- **Identifying Microsoft Exchange 2000 Server Components, Features, and Capabilities**
- Exchange 2000 Server Components and Features
- Analyzing Exchange 2000 Server Components
- Analyzing the Client Types that are Supported by Exchange2000 Server
- Comparing Exchange 2000 Products
- Overview of Exchange 2000 Server Integration with Windows 2000
- Defining Exchange 2000 Partitions in Active Directory
- Exchange 2000 Server Capabilities
- Analyzing Exchange 2000 Server Capabilities

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- **Installing Microsoft Exchange 2000 Server**
  - Preparing for an Exchange 2000 Server Installation
  - Preparing the Windows 2000 Forest for an Exchange 2000 Installation
  - Preparing Domains for Exchange 2000 Server
  - Analyzing Administrative Groups and Routing Groups
  - Installing Exchange 2000 Server
  - Examining Exchange System Manager
  - Examining Folders Added by the Exchange 2000 Installation
  - Configuring the Microsoft Outlook Client and Sending an Email
  
- **Managing Microsoft Exchange 2000 Server**
  - Managing Security
  - Examining the Organization Object in Exchange System Manager
  - Enabling and Examining the Security Properties Page
  - Examining Top Level Containers in the Organization Object
  - Observing Permissions in Exchange System Manager
  - Using the Exchange Administration Delegation Wizard
  - Verifying Permissions
  - Assigning an Administrative Role and Verifying Permissions
  - Analyzing Permission Requirements
  - Managing Administrative Groups
  - Creating an Administrative Group
  - Creating Recipient Objects and Managing Address Lists
  - Viewing the Recipients Container in Exchange System Manager
  - Using the Exchange Tasks Wizard to Create a User Recipient
  - Creating a Contact Recipient

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- **Managing Microsoft Exchange 2000 Server**
  - Creating a Group Recipient
  - Viewing Address Lists in Exchange System Manager
  - Creating an Address List
  - Configuring an Address List
  - Changing the Recipient Name Display with ADSI Edit
  - Configuring and Using the Recipient Update Service
  
- **Creating, Configuring, and Managing Storage Groups and Stores**
  - Defining and Creating Storage Groups and Stores
  - Creating a Storage Group and a Mailbox Store
  - Deleting a Mailbox Store
  - Examining the Extensible Storage Engine
  - Analyzing Extensible Storage Engine Terminology
  - Analyzing File Types
  - Enabling Circular Logging
  - Storing Information in a Store Database and Backing Up Data
  - Performing a Backup
  
- **Configuring and Administering Recipient Objects**
  - Configuring Recipient Objects
  - Viewing Properties of a User Recipient
  - Viewing the Exchange General Properties Page
  - Viewing the Exchange Advanced Properties Page
  - Managing Recipient Objects
  - Adding Email Addresses for a User
  - Viewing and Setting Permissions on a User's Mailbox
  - Sending and Receiving Emails on Your Own Account and On Behalf of Another User
  - Moving a User's Mailbox

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- **Configuring and Administering Recipient Objects**
  - Managing Exchange 2000 Server through Policies
  - Creating Policies and Viewing Properties Pages
  - Creating a Recipient Policy
  - Applying a Server Policy
  - Scripting Utilities
  - Using the LDIFDE Utility
  
- **Creating, Configuring, and Managing Public Folders**
  - Creating and Configuring Public Folders
  - Creating and Using Public Folders
  - Posting Information to a Public Folder
  - Configuring Public Folders
  - Creating an Additional Public Folder Hierarchy
  - Examining Public Store Sub-containers
  - Administering Public Folders
  - Configuring Permissions on Public Folders
  - Viewing Public Folder Permissions
  - Using Roles to Set Permissions on Public Folders
  - Configuring Replication
  - Analyzing Public Folder Replicas
  - Creating a Public Folder Replica
  - Viewing Replication Status
  - Enabling Diagnostic Logging for Public Folder Replication
  - Analyzing Public Folder Replica Connections and Referrals
  - Examining the Replication Process
  - Analyzing the Replication Process
  - Generating a Replication Conflict
  - Defining Configuration Settings with Policies
  - Applying a Public Store Policy

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- **Creating, Configuring, and Managing Public Folders**
- **Configuring SMTP**
  - Defining SMTP and ESMTP Commands and Concepts
  - Analyzing SMTP Commands and Reply Codes
  - Analyzing ESMTP Commands
  - Viewing SMTP Folders
  - Creating Virtual Servers
  - Creating an SMTP Virtual Server
  - Configuring Message Filters
  - Exploring Authentication Methods
  - Exploring Secure Communications
  - Exploring Connection Control
  - Exploring Relay Restrictions
  - Exploring Messaging Limits and Badmail
  - Exploring Delivery Properties
  - Examining Virtual Server Queues
  - Examining and Configuring an SMTP Connector
  - Configuring SMTP Connectors
- **Creating, Configuring, and Managing Message Routing**
  - Creating Routing Groups
  - Creating a Routing Group and Adding Members
  - Connecting Routing Groups
  - Creating Routing Group Connectors
  - Configuring an SMTP Connector for Triggered Delivery
  - Analyzing the X.400 Connector
  - Examining Link State Processes and Functions and Route Determination
  - Analyzing Link State Information and Route Selection

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- **Message Flow, Link Connectivity, and Message Tracking**
  - Examining the Components and Functions of Message Flow Architecture
  - Analyzing Message Flow
  - Analyzing Failed Links and Tracking Messages
  - Tracking Messages
  
- **Integrating IIS and Configuring Email Protocols**
  - Integrating IIS with Exchange 2000 Server
  - Examining IMAP4, POP3, and NNTP Virtual Servers
  - Exploring Client Connectivity, Message Transfer, and Security
  - Configuring the Outlook Express Client
  - Creating and Configuring an IMAP4 Virtual Server
  - Connecting to an IMAP4 Server using Outlook Express
  - Analyzing LDAP, Kerberos Security, and Client Connectivity Issues
  - Discovering NNTP Services with Exchange 2000Server
  - Creating a Newsgroup
  
- **Integrating and Using Outlook Web Access**
  - Examining the Benefits and Limitations of Outlook Web Access
  - Analyzing the Benefits and Limitations of Outlook Web Access
  - Defining the Components and Process of Outlook Web Access
  - Examining Outlook Web Access Directories and Files
  - Using Outlook Web Access to Send and Receive Email
  - Providing Secure Access
  - Access Email through a Front-end Server
  - Analyzing Front-end Server Placement
  
- **Implementing Instant Messaging**
  - Examining Instant Messaging

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- **Implementing Instant Messaging**
  - Analyzing Instant Messaging Terms and Components
  - Installing and Configuring Instant Messaging with Exchange 2000 Server
  - Configuring an Instant Messaging Home Server
  - Configuring User Accounts for Instant Messaging
  - Installing the Instant Messaging Client
  - Configuring Instant Messaging
  - Examining Instant Messaging Operations
  - Analyzing Instant Messaging Operations
  
- **Using Monitoring Tools**
  - Monitoring Tools
  - Analyzing Monitoring Tools
  - Viewing Information Store Objects and Counters in Performance Monitor
  - Using Monitoring and Status
  - Using the Monitoring And Status Utility
  - Examining Notifications
  - Viewing Server and Connector Status
  - Using Diagnostics Logging, Event Viewer, and Protocol Logging
  - Enabling Diagnostic Logging
  - Viewing Diagnostic Logging Entries in Event Viewer
  - Enabling and Viewing Protocol Logs

**Course Duration:**

**5 Days**

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