



## Skype for Business

### 20334: Core Solutions of Microsoft Skype for Business

\$2,995.00

- 5 Days

## Upcoming Dates

## Course Description

This course provides students with the knowledge and skills required to plan, deploy, configure, and administer a Skype for Business 2015 solution. Students will learn how to deploy a multi-site and highly available Skype for Business infrastructure that supports instant messaging, conferencing, Persistent Chat, archiving, and monitoring. Students will also learn how to manage and maintain the infrastructure, and troubleshoot issues that might arise. This course focuses primarily on the on-premises deployment of Skype for Business, but it does include information on how to integrate the on-premises deployment with Skype for Business Online and how to migrate from previous versions of Microsoft Lync Server.

This course helps students prepare for Exam 70-334.

## Course Outline

### Module 1: Design and Architecture of Skype for Business Server 2015

This module describes the high-level components and features of Skype for Business 2015. It describes how to work with the Skype for Business administrative tools. It describes the main components of Skype for Business Online and coexistence with on-premises Skype for Business servers.

#### Lessons

- Overview of Skype for Business Components and Features
- Introduction to the Skype for Business Administrative Tools

#### Lab : Designing and Publishing a Skype for Business Server Topology

- Designing and Creating the Topology
- Updating the Topology for the New York Site

After completing this module, students will be able to:

- Describe the high level components and features of Skype for Business 2015.
- Work with the Skype for Business administrative tools.
- Describe main components of Skype for Business Online and coexistence with Skype for Business Server.
- Design and Publish a Skype for Business Server Topology.

### Module 2: Installing and Implementing Skype for Business Server 2015

This module explains the external dependencies for Skype for Business Server. It describes the Session Initiation Protocol (SIP) domain requirements to ensure a successful implementation. It also explains how to install Skype for Business Server and describes how Skype for Business Server integrates with Microsoft Exchange Server and Microsoft SharePoint Server.

### **Lessons**

- Server and Service Dependencies
- Planning SIP Domains
- Installing Skype for Business Server
- Integrating Skype for Business Server with Exchange Server and SharePoint Server

### **Lab : Configuring DNS for Skype for Business Server**

- Configuring the Required DNS Records for Skype for Business Server

### **Lab : Deploying Skype for Business Server**

- Installing and Configuring Skype for Business Server
- Installing Skype for Business Server Certificates
- Configuring Exchange Server Integration

After completing this module, students will be able to:

- Identify the external dependencies for Skype for Business Server.
- Identify the Session Initiation Protocol (SIP) domain requirements to ensure a successful implementation.
- Install Skype for Business Server.
- Describe how Skype for Business Server integrates with Microsoft Exchange Server and Microsoft SharePoint Server.

## **Module 3: Administering Skype for Business Server 2015**

This module explains how to administer and manage Skype for Business Server by using Skype for Business Server Control Panel and the Skype for Business Server Management Shell. It also describes how to create useful Skype for Business scripts to automate processes. Additionally, it explains how to implement role-based access control (RBAC) in Skype for Business and how to use important Test cmdlets and tools to troubleshoot Skype for Business.

### **Lessons**

- Using Skype for Business Server Control Panel
- Using the Skype for Business Server Management Shell
- Implementing Role-Based Access Control
- Using Test Cmdlets
- Tools for Troubleshooting Skype for Business

### **Lab : Using the Administrative Tools to Manage Skype for Business Server**

- Installing the Skype for Business Administrative Tools on a Windows 10 Client
- Using Skype for Business Server Control Panel
- Using the Skype for Business Server Management Shell

### **Lab : Using the Skype for Business Troubleshooting Tools**

- Using Skype for Business Server Management Shell Cmdlets to Create an RBAC Structure
- Using the Centralized Logging Service
- Performing a Network Capture by Using Message Analyzer

After completing this module, students will be able to:

- Use Skype for Business Server Control Panel.
- Use the Skype for Business Server Management Shell.
- Explain how to create useful Skype for Business scripts.
- Implement RBAC in Skype for Business.

- Use important Test cmdlets.
- Use the various tools to troubleshoot Skype for Business.

#### **Module 4: Configuring Users and Clients in Skype for Business 2015**

This module explains how to configure users by using Skype for Business Server Control Panel and the Skype for Business Server Management Shell. It then describes how to deploy Skype for Business clients and explains the sign-in, registration, and authentication process for Skype for Business clients. It also explains how to configure in-band policies and group policies. Finally, it explains how to manage the Skype for Business Address Book.

##### **Lessons**

- Configuring Users
- Deploying the Skype for Business Client
- Registration, Sign-In, and Authentication
- Configuring Skype for Business Client Policies
- Managing the Skype for Business Address Book

##### **Lab : Configuring Users and Clients in Skype for Business 2015**

- Enabling Users for Skype for Business by Using the Management Shell
- Troubleshooting a User Sign-In Issue

##### **Lab : Configuring Policies and the Address Book in Skype for Business Server**

- Configuring Client Policies
- Configuring the Address Book

After completing this module, students will be able to:

- Configure users by using Skype for Business Server Control Panel and the Skype for Business Server Management Shell.
- Deploy Skype for Business clients.
- Explain the registration, sign-in, and authentication process for Skype for Business clients.
- Configure in-band policies and Group Policies.
- Describe how to manage the Skype for Business Address Book.

#### **Module 5: Configuring and Implementing Conferencing in Skype for Business 2015**

This modules describes Skype for Business conferencing features and modalities. It explains how to integrate Skype for Business Server 2015 with Office Online Server. It also explains how to plan for conferencing bandwidth utilization. Finally, it explains how to configure conferencing settings and policies.

##### **Lessons**

- Introduction to Conferencing in Skype for Business 2015
- Integrating Skype for Business Server and Office Online Server
- Bandwidth Planning
- Configuring Conferencing Settings

##### **Lab : Installing and Configuring Office Online Server**

- Installing Office Online Server

##### **Lab : Configuring Conferencing in Skype for Business Server**

- Configuring, Assigning, and Validating Conferencing Policies

After completing this module, students will be able to:

- Describe Skype for Business conferencing features and modalities.
- Integrate Skype for Business Server 2015 with Office Web Apps Server.
- Plan for conferencing bandwidth utilization.

- Configure conferencing settings and policies.

## **Module 6: Implementing Additional Conferencing Options in Skype for Business Server 2015**

This module describes the conferencing lifecycle and explains how to administer it. It then explains how to use conferencing and meeting policies. It also explains how to deploy dial-in conferencing and configure the infrastructure for Lync Room System. Finally, it explains how to configure large meetings and Skype Meeting Broadcast.

### **Lessons**

- Overview of the Conferencing Lifecycle
- Designing and Configuring Audio/Video and Web Conferencing Policies
- Deploying Dial-In Conferencing
- Configuring an LRS
- Configuring Large Meetings and Skype Meeting Broadcasts

### **Lab : Implementing and Troubleshooting Conferencing Policies**

- Creating and Editing Conferencing Policies
- Troubleshooting Conferencing Policies

### **Lab : Configuring Additional Conferencing Modalities**

- Deploying Dial-In Conferencing
- Preparing for LRS Deployment

After completing this module, students will be able to:

- Administer the conferencing lifecycle.
- Configure conferencing and meeting policies.
- Deploy dial-in conferencing.
- Configure the infrastructure for Lync Room System (LRS).
- Configure large meetings and Skype Meeting Broadcast.

## **Module 7: Designing and Implementing Monitoring and Archiving in Skype for Business Server 2015**

This module describes the Monitoring Service components in Skype for Business Server. It then describes archiving and explains how to design an archiving policy. Finally, it explains how to implement archiving.

### **Lessons**

- Components of the Monitoring Service
- Overview of Archiving
- Designing an Archiving Policy
- Implementing Archiving

### **Lab : Implementing Monitoring**

- Enabling Monitoring Reports

### **Lab : Implementing Archiving**

- Enabling Skype for Business Server Archiving to Microsoft Exchange Server 2013

After completing this module, students will be able to:

- Describe Monitoring Service components in Skype for Business Server.
- Implement monitoring.
- Design an archiving policy.
- Implement archiving.

## Module 8: Deploying Skype for Business 2015 External Access

This module explains how external access extends the functionality to users outside the corporate network, facilitates federation, and makes meetings with external participants possible. This module teaches you how you can install and configure the required components, configure the policies and users, configure external access network and certificates, and publish the Skype for Business web services to the Internet by using Windows Server 2012 R2 Web Application Proxy.

### Lessons

- External Access Overview
- Configuring External Access Policies and Security
- Configuring External Access Network and Certificates
- Configuring Reverse Proxy
- Designing Mobility in Skype for Business Server
- Designing Federation in Skype for Business Server

### Lab : Designing and Implementing External User Access

- Defining the Edge Server in the Topology
- Installing and Configuring the Edge Server

### Lab : Installing the Components for External Users

- Installing and Configuring Reverse Proxy
- Validate External Messaging

After completing this module, students will be able to:

- Identify the components for external access.
- Configure external access policies and security.
- Configure external access network and certificates.
- Configure reverse proxy.
- Configure Skype for Business Server 2015 for mobile clients.
- Design and configure federation in Skype for Business Server.

## Module 9: Implementing Persistent Chat in Skype for Business 2015

This module explains how to design a Skype for Business 2015 topology that includes Persistent Chat. It then explains how to deploy Persistent Chat in Skype for Business. Finally, it explains how to configure and manage Persistent Chat.

### Lessons

- Designing a Persistent Chat Server Topology
- Deploying Persistent Chat Server
- Configuring and Managing Persistent Chat

### Lab : Designing and Deploying Persistent Chat Server

- Configuring the Topology for Persistent Chat Server
- Installing Persistent Chat Server
- Registering a New Add-In

### Lab : Configuring and Using Persistent Chat

- Configuring Chat Rooms and Policies
- Validating a Persistent Chat Deployment
- Troubleshooting Persistent Chat

After completing this module, students will be able to:

- Design a Skype for Business topology that includes Persistent Chat.

- Deploy Persistent Chat in Skype for Business.
- Configure and manage Persistent Chat in Skype for Business.

## **Module 10: Implementing High Availability in Skype for Business 2015**

This module describes how to design and implement a high-availability solution for Front End Servers and Back End Servers in a Skype for Business Server environment. It also explains how to design and implement a high-availability solution for file stores, Edge Servers, Mediation Servers, Office Online server farms, and reverse proxy servers in a Skype for Business Server environment.

### **Lessons**

- Planning for Front End Pool High Availability
- Planning for Back End Server High Availability
- High Availability for Other Component Servers

### **Lab : Implementing High Availability**

- Managing Front End Pools
- Configuring Hardware Load Balancing

After completing this module, students will be able to:

- Design and implement a high-availability solution for Front End Servers in a Skype for Business Server environment.
- Design and implement a high-availability solution for Back End Servers in a Skype for Business Server environment.
- Design and implement a high-availability solution for file stores, Edge Servers, Mediation Servers, Office Online Server farms, and reverse proxy servers in a Skype for Business Server environment.

## **Module 11: Implementing Disaster Recovery in Skype for Business 2015**

This module describes the disaster recovery options in Skype for Business Server, such as Front End pool pairing and Persistent Chat Server stretched pools. It then explains how to implement disaster recovery in Skype for Business Server. Additionally, it describes the disaster recovery options for Persistent Chat, the Central Management store, the Location Information Service (LIS) database, and user data.

### **Lessons**

- Disaster Recovery Options in Skype for Business Server
- Implementing Disaster Recovery in Skype for Business Server
- Additional Disaster Recovery Options in Skype for Business Server

### **Lab : Implementing and Performing Disaster Recovery**

- Configuring Pool Pairing
- Perform Pool Failover and Failback

After completing this module, students will be able to:

- Describe disaster recovery options in Skype for Business Server.
- Implement disaster recovery in Skype for Business Server.
- Describe the disaster recovery options for Persistent Chat, the Central Management store, the Location Information Service (LIS) database, and user data.

## **Module 12: Integrating with Skype for Business Online**

This module describes Skype for Business Online features. It then explains how to prepare an on-premises environment for a hybrid Skype for Business deployment. It also explains how to configure a hybrid Skype for Business deployment.

### **Lessons**

- Overview of Skype for Business Online
- Preparing for a Hybrid Skype for Business Deployment
- Configuring a Hybrid Skype for Business Environment

#### **Lab : Designing a Hybrid Skype for Business Deployment**

- Designing the Hybrid Skype for Business Environment

After completing this module, students will be able to:

- Describe Skype for Business Online features.
- Prepare an on-premises environment for a hybrid Skype for Business deployment.
- Configure a hybrid Skype for Business deployment.

#### **Module 13: Planning and Implementing an Upgrade to Skype for Business Server 2015**

This module describe how to plan a side-by-side migration from Lync Server 2010 and Lync Server 2013 to Skype for Business Server 2015. It also explains how to perform an in-place upgrade from Lync Server 2013 to Skype for Business Server.

##### **Lessons**

- Overview of Upgrade and Migration Paths
- In-Place Upgrade to Skype for Business

#### **Lab : Performing an In-Place Upgrade of Lync 2013 to Skype for Business**

- Install Skype for Business Administrative Tools

After completing this module, students will be able to:

- Describe the supported migration and upgrade paths for Skype for Business Server.
- Perform an in-place upgrade of Lync Server 2013 to Skype for Business Server.
- Describe how to manage the user experience during an upgrade.

## **Audience**

The primary audience for this course is information technology (IT) professionals who are responsible for the Skype for Business 2015 deployment in their organizations. Experience with previous versions of Lync Server is beneficial but not required to take this course. Students should be proficient with Active Directory Domain Services (AD DS), data networks, and telecommunications standards and components that support the configuration of Skype for Business. Students should also be familiar with Microsoft Exchange Server and Microsoft Office 365.

The secondary audience for this course includes IT professionals who are planning to take the exam 70-334: Core Solutions of Skype for Business 2015 as a stand-alone exam or as part of the requirement for the Microsoft Certified Solutions Expert (MCSE): Communications certification exam.

## **Prerequisites**

In addition to their professional experience, students who attend this training should already have the following technical knowledge:

- Minimum of two years of experience administering either Windows Server 2012 or Windows Server 2008 R2

- Minimum of two years of experience working with AD DS
- Minimum of two years of experience working with name resolution, including Domain Name System (DNS)
- Experience working with certificates, including public key infrastructure (PKI) certificates
- Experience working with Windows PowerShell
- Understanding of data networks and telecommunications standards and components

## What You Will Learn

After completing this course, students will be able to:

- Describe the architecture of Skype for Business 2015 and design a Skype for Business 2015 topology.
- Install and implement Skype for Business Server 2015.
- Administer and manage Skype for Business Server 2015 by using the various tools.
- Configure users and clients in Skype for Business 2015.
- Implement conferencing in Skype for Business 2015.
- Implement additional conferencing options, such as dial-in conferencing, Lync Room System, and Skype Meeting Broadcast.
- Implement monitoring and archiving in Skype for Business 2015.
- Implement connectivity for external users and organizations.
- Implement Persistent Chat in Skype for Business 2015.
- Implement high availability in Skype for Business 2015.
- Implement disaster recovery in Skype for Business 2015.
- Design and deploy a hybrid Skype for Business environment.

Design and implement an upgrade from Lync Server to Skype for Business Server 2015