

# CXD-235 XenApp and XenDesktop Administration on Windows Server 2016



## Overview

Designed for students who plan to run XenApp and XenDesktop Windows Server 2016 with little to no previous experience required. Obtain foundational knowledge of XenApp and XenDesktop required to be successful with the platform running both infrastructure and app and desktop resources on Microsoft's latest operating systems. Learn to install, configure, and manage a highly available environment comprised of XenApp and XenDesktop controllers, StoreFront, Citrix Receiver, Director, and Profile management. Refer to the topic outline for a detailed view of topics covered in the course.

### Recommended pre-requisite courses:

- [CXA-105 XenApp and XenDesktop Foundations](#)

*Note: This course is based on XenApp and XenDesktop 7.x CR (Current Release) including the hands-on labs required to support Windows Server 2016. Training on the Long Term Service Release (LTSR) mapped to the certification exam is also available as [instructor led training](#). For more information on the long term service release program, please visit the [program page](#).*

### Key Skills

Upon successful completion of this course, students will be able to:

- Describe the architecture and communications of XenApp and XenDesktop components
- Understand the prerequisites for a successful XenApp and XenDesktop deployment on Windows Server 2016
- Install and configure a highly available XenApp and XenDesktop site
- Deploy and deliver apps and desktops on Windows Server 2016 and Windows 10 using Machine Creation Services (MCS)
- Understand the differences and benefits of Provisioning Services as an image management solution
- Install and configure a highly available Citrix StoreFront site
- Install and configure Citrix Receiver for end user access
- Set up Citrix Profile management for end user data
- Understand and configure printing within a XenApp and XenDesktop environment
- Understand and configure Citrix policies for managing end-user session experience
- Understand how to configure basic security features of XenApp and XenDesktop
- Use Citrix Director to monitor and troubleshoot end user sessions and view environment trends

### Audience

Students interested in learning to install, configure, and manage XenApp and XenDesktop on Windows Server 2016 including:

- Administrators
- Implementers / Engineers
- Architects

### **Instructional Method**

This course is offered in instructor-led training (ILT)/virtual instructor-led training (vILT) formats with application of concepts through hands-on exercises in a live lab environment.

### **Course Length**

5 days

### **Course Materials**

As part of this course students will receive the following materials:

- Student Manual
- Access to a lab environment for the duration of the course
- Lab exercise guide

### **Preparatory Recommendations**

Citrix recommends students prepare for this course by taking the one of the following courses:

- [CXA-105 XenApp and XenDesktop Foundations](#) (free eLearning)

It is also recommended to gain a basic understanding of the following concepts and technologies:

- Familiarity with how to navigate and use Windows Server 2016 and Windows 10

### **Certification Preparation**

This course does not directly align with a certification as a current release training course. This course covers concepts related to the CCA-V certification related exam. By passing the exam, candidates will gain the Citrix Certified Associate – Virtualization (CCA-V) certification. Go [here](#) to learn more about Citrix Certifications.

### **Topic Outline**

#### **Part 1:**

##### Module 1: Architectural Overview

- FlexCast models (use cases)
- Architecture
- Layered approach methodology
- Hosting platform considerations

##### Module 2: Initial Requirements and Lab

- Citrix consulting methodology
- Supporting infrastructure prerequisites
- Supporting infrastructure licensing considerations
- Preparing for Server 2016 with AppDNA

- Lab environment

### Module 3: Installing and Configuring a XenApp and XenDesktop Site

- Licensing considerations
- Installation and management
- Introduction to basic license server troubleshooting
- Delivery Controller role
- The XenApp and XenDesktop Site
- Databases
- XML traffic security

### Module 4: Provision and Deliver Application and Desktop Resources

- The Virtual Delivery Agent
- Machine catalogs and delivery groups
- Provisioning methods and considerations
- Provisioning methods: Machine Creation Services (MCS) in depth
- MCS environment considerations
- Creating resources
- Application layering with AppDisks

### Module 5: Providing Access with Citrix StoreFront and Receiver

- StoreFront installation and architecture
- StoreFront authentication services
- Self Service Password Reset
- Receiver
- Receiver configurations

### Module 6: Understanding and Configuring Citrix Policies

- Policies introduction
- Policies for session management

### Module 7: Application Presentation and Management

- Application properties
- File-type association
- Shortcut placement
- HDX Monitor
- Application groups

### Module 8: Printing with XenApp and XenDesktop

- Printing introduction
- Print job routing
- Printer driver management
- Citrix Universal Print Driver and Server

### Module 9: Citrix Profile Management

- User profiles
- Configuring Citrix Profile management

#### Module 10: Managing the XenApp and XenDesktop Site

- Delegated administration
- Logging and reporting
- Introduction to PowerShell

#### Module 11: XenApp and XenDesktop Site Redundancy

- Component failure review
- Methods of redundancy

#### Module 12: XenApp and XenDesktop Site Basic Network Security

- Citrix administrator introduction to security considerations
- Certificate authority
- StoreFront consideration for external access
- XML service security considerations
- External HDX connection security with NetScaler Gateway

#### Module 13: Monitoring the XenApp and XenDesktop Site

- Introduction to Citrix Director
- Navigating Director
- Monitoring sessions
- Interacting with sessions
- Network monitoring with HDX Insight
- Trends and reports
- Alerts and notifications

#### Module 14: Introduction to Supporting and Troubleshooting XenApp and XenDesktop

- Introduction to Supporting XenApp/XenDesktop Site
- Known Issue Awareness
- XenApp and XenDesktop Hotfixes and the Long Term Service Release
- Common Troubleshooting Tools