

## COURSE OUTLINE

# CWS-215: Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud

**Duration:** 5 Days

**Prerequisites:**

To ensure a successful training experience in the CNS-225: Deploy and Manage Citrix ADC 13.x with Traffic Management course, the following are the minimum required prerequisites:

- Basic understanding of the TCP/IP protocol suite.
- Familiarity with networking concepts such as routing and switching.
- Knowledge of common network devices such as routers, switches, and firewalls.
- Awareness of basic network security concepts and best practices.
- Experience with the Windows or UNIX/Linux operating systems.
- Some understanding of server load balancing and site redundancy concepts.
- Basic knowledge of SSL and its role in securing data transactions.

While the course is designed to be comprehensive, having this foundational knowledge will help you grasp the course material more effectively and enhance your learning experience.

**Course Description:**

The CWS-215: Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud course is an in-depth training program designed for IT professionals who want to learn how to install, configure, and manage Citrix Virtual Apps and Desktops 7 in both on-premises and Citrix Cloud environments. This course equips learners with the skills to deliver virtual desktops and applications through a unified platform, offering flexibility and centralized management. Throughout the course, students will gain practical knowledge on various aspects, such as architecture planning, site deployment, image management, application delivery, and user experience optimization. Additionally, the training covers essential security practices, site monitoring, troubleshooting, and migration strategies to Citrix Cloud. By undertaking CWS-215 training, learners will be prepared to maintain and support complex Citrix environments, ensuring efficient and secure delivery of apps and desktops to end-users. This comprehensive course is critical for any IT professional aiming to master Citrix solutions and optimize their organization's virtualization strategy.

**Target Audience:**

- IT Administrators and Engineers responsible for Citrix environments
- Systems Administrators tasked with managing virtual application and desktop infrastructure
- Citrix Administrators and Consultants looking to deepen their knowledge
- Network Engineers who support and manage Citrix solutions
- Desktop Support Technicians transitioning to virtualization roles
- Infrastructure Architects designing Citrix-based virtual environments
- Cloud Engineers focusing on Citrix Cloud services
- Virtualization Specialists seeking to update their Citrix skill set
- IT Professionals preparing for Citrix Certified Associate - Virtualization (CCA-V) certification

**Course Outlines:**

**Module 1: Introduction to Citrix Virtual Apps and Desktops**

- New Citrix Workspace Packaging
- Introduction to Citrix Virtual Apps and Desktops
- Citrix Virtual Apps and Desktops 2203 LTSR Refresh – What's New
- End-User and Admin Experience

**Module 2: Planning – Architecture Overview**

- Overview of Citrix Virtual Apps and Desktops Components
- Citrix Virtual Apps and Desktops Features and Resource Capabilities
- Hosting Platform Considerations
- Connection Flow Process Introduction

**Module 3: Planning - Citrix Virtual Apps and Desktops Site Considerations**

- Pre-Deployment Considerations
- Citrix Licensing Setup
- Delivery Controller Setup
- Citrix Virtual Apps and Desktops Site Setup
- Redundancy Considerations

**Module 4: Planning – Provisioning**

- Master Image Creation Methods
- Master Image Requirements

**Module 5: Planning – Provisioning**

- Machine Catalogs and Delivery Groups
- Provisioning Methods and Considerations
- Machine Creation Services – Deep Dive
- MCS Environment Considerations

**Module 6: Planning – Providing Access to End Users**

- StoreFront Overview
- StoreFront Beacons
- Citrix Workspace app
- StoreFront Features

**Module 7: Planning – Managing the User Experience**

- Citrix Policies – Methods to Manage Policies
- Citrix HDX Features – Using Policies

**Module 8: Planning - Published App and Desktop Presentation and Management**

- Published App Properties
- Server OS Published App Optimizations
- Published App Presentation
- Application Groups
- Apps and Desktops Presentation

**Module 9: Planning – Printing for User Sessions**

- Printing Concepts and Printer Provisioning
- Printer Drivers
- Print Environment – Considerations

**Module 10: Planning – Profile Management**

- User Profiles – Introduction and Considerations
- Configuring Citrix Profile Management
- Profile Containers – VHDX-based Policies

**Module 11: Planning – Manage the Site**

- Delegated Administration
- Use PowerShell with Citrix Virtual Apps and Desktops
- Power Management Considerations

**Module 12: Planning - Citrix Virtual Apps and Desktops Basic Security Considerations**

- Citrix Admin Security Considerations
- XML Service Security Considerations
- Secure HDX External Traffic

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### **Module 13: Rollout - Citrix Workspace app Deployment and Configuration**

- Citrix Workspace Deployment and Configuration

### **Module 14: Manage Citrix Virtual Apps and Desktops Deployment**

- Citrix Director Introduction
- Monitor and Interact with User Sessions
- Published Apps Analysis
- Monitor the Machines Running the VDA
- Site Specific Common Monitoring
- Alerts and Notifications
- Optimize Citrix Director Monitoring with
- Citrix Application Delivery Management
- Citrix Analytics Introduction
- Prepare to use Citrix Analytics
- Types of Analytics

### **Module 15: Manage - Supporting and Troubleshooting Citrix Virtual Apps and Desktops Workloads**

- Introduction to Supporting a Citrix Virtual Apps and Desktops Site
- A List of Common Tools
- Common Tasks for Proactive Administration

### **Module 16: Optimize – Citrix Virtual Apps and Desktops Deployment**

- Optimizing VDAs – Citrix Optimizer
- Citrix Workspace Environment Management Overview
- HDX Optimization

### **Module 17: Introduction to Citrix Cloud with Citrix DaaS**

- What is Citrix Cloud?
- Why Citrix DaaS?
- Migration from Citrix Virtual Apps and Desktops to Citrix DaaS
- Citrix Cloud Administration

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