

## COURSE OUTLINE

# CWS-313: Citrix Virtual Apps and Desktops 7 Advanced Deployment, Troubleshooting, Security and Administration

**Duration:** 3 Day

**Prerequisites:**

Required:

- CWS-215: Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud
- CMB-318: Citrix Virtual Apps and Desktops 7, App Layering and WEM Administration (Fast Track)

**Objectives:**

- How to implement advanced administration concepts such as backups, disaster recovery, scalability and redundancy for a Citrix Virtual Apps and Desktop 7 Site
- Advanced troubleshooting techniques to troubleshoot Citrix Virtual Apps and Desktop 7
- Security considerations and configurations for Citrix Apps and Desktop 7 site including multi-site management using zones

**Course Description:**

The three-day course develops techniques for investigating many of the common issues that can affect environmental health and solving them more effectively in the advanced troubleshooting section. It provides an in-depth understanding of how to manage complex solutions like multi-location environments with configurations around StoreFront, the Delivery Controllers, Cloud Connectors, and HDX. The CWS-313 is also one of the Citrix-recommended training for the Citrix Certified Professional-Virtualization (CCP-V) certification's partial preparation.

**Course Outlines:**

### Implementing Redundancy and Scalability

- StoreFront and Citrix Gateway
- Site Infrastructure
- Machines Running the Virtual Delivery Agent

### Managing a Virtual Apps and Desktops Environment with Multiple Locations

- Zones
- VDA Registration in a MultiZone Environment
- Zone Preference
- Optimal Gateway Routing and Zones
- Managing StoreFront Store Subscriptions in a Multi-Location Environment
- StoreFront and Citrix ADC Branding

### Implementing Backups and Disaster Recovery

- Backups
- Disaster Recovery Considerations
- Disaster Recovery Process

### Implementing Advanced Authentication Methods

- Multifactor Authentication RADIUS and OTP
- Multifactor Authentication Smart Card Authentication
- Federated Authentication ADFS SAML and FAS

### Improving App and Data Security

- Introduction to Application Security
- Preventing Jailbreak Attacks
- Minimizing the Impact of Attacks

### Securing Machines Running the Virtual Delivery Agent

- TLS to VDA Encryption
- GPOs and Citrix Policies
- Image Management

### Introduction to Troubleshooting

- Troubleshooting Methodology Process
- Resource Tools and Utilities
- Introduction to PowerShell

### Troubleshooting Access Issues

- Troubleshooting StoreFront
- Troubleshooting Citrix Gateway

### Troubleshooting Delivery Controller Issues

- Validating FMA Services

### Troubleshooting VDA Registration Issues

- Troubleshooting VDA Registration

### Troubleshooting HDX Connection Issues

- Troubleshooting HDX Connections

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