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**Learning Style: Virtual Classroom**

**Provider: Citrix**

**Difficulty: Intermediate**

**Course Duration: 5 Days**

**Next Course Date: February 24, 2025**

## **Citrix Virtual Apps and Desktops Advanced Administration (LTSR 2402)**

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### **Course Outline:**

Module 1: Introduction to Citrix Virtual Apps and Desktops Advanced Config, Redundancy, and Scalability

- Citrix Virtual Apps and Desktops Redundancy and Scalability
- StoreFront and NetScaler Gateway
- Site Infrastructure Redundancy and Scalability
- Machines Running the Virtual Delivery Agent

## Module 2: Manage CVAD Multiple Locations

- Zones

- VDA Registration in a Multi-Zone Environment

- Zone Preference

- Optimal Gateway Routing and Zones

- StoreFront Resource Aggregation

- Managing StoreFront Store Subscriptions in a Multi-Location Environment

## Module 3: Backups and Disaster Recovery

- Backups

- Disaster Recovery Considerations

- Disaster Recovery Process

## Module 4: Advanced Authentication Methods

- Multi-factor Authentication - RADIUS and One Time Passwords (OTP)

- Multi-factor Authentication – Smart Card Authentication

- Federated Authentication

## Module 5: App and Data Security

- Introduction to Application Security

- Preventing Jailbreak Attacks

- Minimizing the Impact of Attacks

## Module 6: Secure VDAs

- Transport Layer Security (TLS) Virtual Delivery Agent (VDA) Encryption

- Microsoft Group Policy Objects (GPOs) and Citrix Policies

- Image Management

## Module 7: Introduction to Troubleshooting

- Troubleshooting Methodology

- Resource Tools and Utilities

- Introduction to PowerShell

## Module 8: Troubleshoot Access Issues

- Troubleshooting StoreFront

- Troubleshooting NetScaler Gateway

- Troubleshooting Access and Authentication

- Troubleshooting App/Desktop Launch

## Module 9: Troubleshoot Delivery Controller Issues

- Validating FlexCast Management Architecture (FMA) Services

## Module 10: Troubleshoot Virtual Delivery Agent (VDA) Registration Issues

Troubleshooting Virtual Delivery Agent (VDA) Registration

## Module 11: Troubleshoot HDX Connection Issues

Troubleshooting HDX Connections

## Module 12: Intro to App Layering and Architecture Overview

Citrix App Layering Introduction  
Architecture

## Module 13: OS Layers

OS Layer

## Module 14: Platform Layers

Platform Layers

## Module 15: App Layers

App Layers

## Module 16: Elastic App Layers and User Layers

Elastic App Layers  
User Layers

## Module 17: Deploy a Layered Image

Using Layered Images with CVAD

## Module 18: Layer Priority and Maintaining an App Layering Environment

Layer Priority  
Updating Layers  
Maintaining and Updating the App Layering Environment  
Common Citrix App Layering Considerations and Additional Resources

## Module 19: Intro to WEM and Architecture Components

WEM Features and Benefits  
WEM On-Premises Components and Deployments  
WEM Service Components and Deployments  
WEM Component Communication Workflows  
WEM Service Component Communication Workflows

## Module 20: WEM Deployment Install

- On-premises WEM: Leading Practice Installation Prerequisites and Steps
- Creating the WEM Database
- Running the WEM Infrastructure Service Configuration Utility
- WEM On-Premises vs WEM Service
- WEM Service: Leading Practice Installation Prerequisites and Steps
- ADMX Template Configuration
- WEM Agent Installation

#### Module 21: WEM Consoles and Initial Setup

- On-Premises WEM and WEM Service Consoles
- WEM Web Console
- WEM Initial Setup
- Migrating GPO settings to WEM

#### Module 22: WEM System and Log On Optimization

- WEM System Optimization Overview
- WEM CPU Management
- WEM Memory Management
- Additional System Optimization Features
- WEM Log On Optimization Overview
- WEM Assigned Actions
- WEM Environmental Settings
- Citrix Profile Management In WEM

#### Module 23: WEM Security and Lockdown Features

- WEM Security Management Features
- Privilege Elevation and Process Hierarchy Control
- WEM Transformer

#### Module 24: Planning - The WEM Agent

- WEM Settings Processing and WEM Agent Caches
- WEM Agent Integration with Citrix Virtual Apps and Desktops and Citrix DaaS

#### Module 25: WEM Monitoring, Reporting, and Troubleshooting

- WEM Monitoring and Reporting
- WEM On-Premises Troubleshooting
- WEM Service Troubleshooting
- WEM Agent Troubleshooting

#### Module 26: Upgrading WEM and Migration to WEM Service

- Upgrading Workspace Environment Management
- WEM On-Premises Migration to WEM Service

