# Citrix Virtual Apps and Desktops 7 Advanced Configuration and WEM Administration (CWS-322)

## Description

### An advanced training to master Citrix Virtual Apps and Desktops 7

The Citrix Virtual Apps and Desktops 7 Advanced Configuration and WEM Administration (CWS-322) course is designed for IT professionals seeking to refine their skills in the advanced management of Citrix Virtual Apps & Desktops 7. This intensive course enables you to gain in-depth expertise in redundancy, security, complex configurations, and advanced WEM (Workspace Environment Management) administration.

With this training, you will be able to maximize your infrastructure's productivity, ensure high availability of your applications, and master Citrix monitoring and troubleshooting tools. This course is essential for administrators looking to deepen their knowledge and optimize their Citrix environment.

### Learn to deploy WEM for optimized performance

This course is designed to provide you with a comprehensive understanding of the installation, configuration, and integration processes of Citrix Virtual Apps and Desktops 7 with WEM, covering security aspects, advanced authentication, and redundancy.

**Niveau**
Intermédiaire
**Course Content**
**Module 1: Introduction to Advanced Configuration of Citrix Virtual Apps and Desktops 7**

- Deployment of Citrix Virtual Apps & Desktops and advanced configuration

**Module 2: Planning: Redundancy and Scalability**

- Redundancy and scalability of a Citrix Virtual Apps & Desktops solution
- High availability and scalability of Storefront and Citrix Gateway components
- Redundancy and scalability of a Site infrastructure
- Machines with Virtual Delivery Agent

**Module 3: Planning: Multi-location Virtual Apps and Desktops Environment**

- Zones
- VDA registration in a Multi-Zone environment
- Zone preferences
- Optimal Gateway Routing and Zones
- Resource aggregation with Storefront
- Managing Storefront favorites in a Multi-Zone environment

## Module 4: Planning: Backups and Disaster Recovery Plan

- Backups
- Best practices for a disaster recovery plan
- Procedure for a disaster recovery plan

## Module 5: Planning: Advanced Authentication Methods

- Multi-factor authentication - RADIUS & OTP
- Multi-factor authentication - Smart Card Authentication
- Federated authentication - ADFS, SAML, and FAS

## Module 6: Enhancing Application and Data Security

- Introduction to application security
- Protecting against Jailbreak attacks
- Minimizing the impact of an attack

## Module 7: Securing Machines with a "Virtual Delivery Agent"

- TLS with VDA encryption
- GPOs and Citrix security policies
- Image management
- Troubleshooting and support tools

## Module 8: Introduction to Troubleshooting

- Support methodology
- Resource tools and utilities
- Introduction to PowerShell

## Module 9: Troubleshooting Access Automation Issues

- Troubleshooting StoreFront
- Citrix ADC and Citrix Gateway - Troubleshooting processes
- Citrix ADC and Citrix Gateway - Troubleshooting access and authentication
- Citrix ADC and Citrix Gateway - Troubleshooting application and desktop launch

## Module 10: Troubleshooting Delivery Controller Issues

- Validation of FMA (FlexCast Management Architecture) services

## Module 11: Troubleshooting VDA Registration

- Troubleshooting VDA registration

## Module 12: Troubleshooting HDX Protocol

- Troubleshooting HDX connections
- Configuring Citrix Workspace Environment Management (WEM)

## Module 13: Introduction to Workspace Environment Management (WEM)

- WEM features and benefits

## Module 14: Planning – WEM Architecture and Communications

- WEM On-Premises components and deployments
- WEM Service components and deployments
- Communication processes between WEM components

## Module 15: Planning – On-Premises WEM Deployment and Installation

- On-Premises WEM: Best installation practices, prerequisites, and installation steps
- On-Premises WEM: Configuring ADMX Templates
- Selecting a service account to run the WEM Infrastructure Service
- Creating the WEM database
- Running the WEM Infrastructure Service Configuration Utility
- On-Premises WEM, Installing the agent

## Module 16: Planning – WEM Service Deployment and Installation

- WEM On-Premises vs WEM Service
- WEM Service: Best installation practices: Prerequisites and installation steps
- WEM Service: Configuring ADMX Templates
- WEM Service: Installing the agent

## Module 17: Planning – WEM Consoles and Startup Setup

- On-Premises WEM and WEM Service: Consoles
- WEM Startup Configuration
- Migrating AD GPO settings into WEM

## Module 18: Planning – WEM Systems and Session Optimization

- Overview of WEM System Optimization
- WEM CPU management
- WEM memory management
- Additional features for optimization
- WEM session optimization
- WEM action assignments
- WEM Environment Settings
- Citrix Profile Management within WEM

## Module 19: Planning – WEM Security and Lockdown Features

- Managing WEM features
- WEM security features
- Privilege elevation and Process hierarchy controls
- WEM Transformer

## Module 20: Planning – WEM Agent

- Applying WEM console settings on an Agent
- Integrating the WEM agent with Citrix Virtual Apps & Desktops and Citrix DaaS

## Module 21: Planning – Monitoring WEM, Reporting, and Troubleshooting

- Monitoring and reporting WEM
- Troubleshooting the WEM Agent
- Troubleshooting WEM Service

## Module 22: Planning – WEM Updates and Migration to WEM Service

- Updating Workspace Environment Management
- WEM On-Premises migration to WEM Service

## Module 23: Deploying a WEM Environment

- WEM Agent options and settings for Windows Desktops

## Module 24: Managing a WEM Environment

- Measuring the successful implementation of WEM

## Documentation

- Digital course materials included

## Participant profiles

- Citrix Virtual Apps & Desktops administrators
- System engineers
- IT professionals specializing in virtualization
- Citrix infrastructure architects

## Prerequisites

- Strong skills in Citrix Virtual Apps & Desktops administration
- Knowledge of Windows Server & Desktop operating systems
- Proficiency in Microsoft Active Directory and group policies
- Good understanding of networks and hypervisors
- Recommended to have completed CWS-215 course

## Objectives

- Implement advanced concepts of redundancy and high availability
- Efficiently troubleshoot Citrix Virtual Apps & Desktops environments
- Optimize user session performance
- Integrate and configure Citrix Workspace Environment Management (WEM)
- Secure multi-site Citrix environments
- Migrate to WEM Service and manage the migration

## Description
Citrix Virtual Apps and Desktops 7 Advanced Configuration and WEM Administration (CWS-322) training
**Classroom Registration Price (CHF)**
4250
**Virtual Classroom Registration Price (CHF)**

4250
**Duration (in Days)**
5
**Reference**
CWS-322