

## EDUCATION

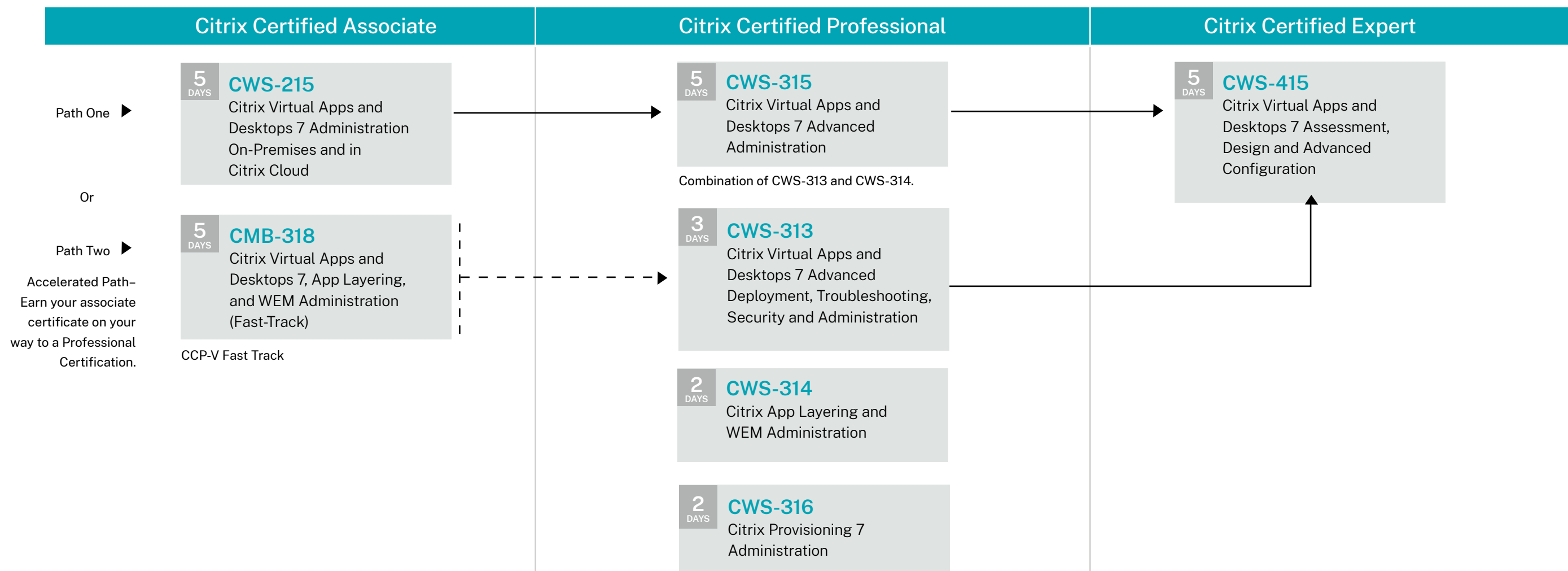
# Citrix Education Learning Journey

The road to becoming Citrix Certified doesn't need to be long and winding. Use our simple-to-follow learning paths to guide your Learning Journey.

Getting started is easy. Choose the technology that you want to learn about. Then use our learning paths to find your desired level of training or simply browse the catalog to find the course that is for you.



# Digital Workspace – Learning Journey



## Citrix Virtual Apps and Desktops in the Cloud



# Digital Workspace – Learning Journey

Citrix Endpoint Management Certified	Citrix Content Collaboration Certified	Citrix Microapps Service Certified
<div><div><div>3 DAYS</div><div><b>CEM-205</b> Manage Citrix Endpoint Management</div></div><div>Citrix Endpoint Management Certification Available</div></div>	<div><div><div>2 DAYS</div><div><b>CSF-201</b> Citrix Content Collaboration Enterprise Essentials</div></div><div>Citrix Content Collaboration Certification Available</div></div>	<div><div><div>3 DAYS</div><div><b>CWS-206</b> Citrix Workspace Microapps Essentials</div></div></div>

# Digital Workspace – Course Catalog

## CWS-115

### Citrix Virtual Apps and Desktops 7 Help Desk Support

Learn to support end-users accessing virtual apps and desktops as part of a Citrix solution. In this course, you will learn to use Citrix Director to interact with user sessions and to capture information for solving issues or escalating to the administration team. Gain foundational knowledge about the Citrix Virtual Apps and Desktops technology and an understanding of how components interact. You will learn about each component focusing on common user related issues that may arise, and how to apply a methodical approach to solve them using real world scenarios. By the end of the course, you will be able to solve or escalate end-user issues appropriately

## CWS-206 NEW

### Citrix Workspace Microapps Essentials

This foundational course to Citrix Workspace intelligence ushers students into the new generation of Citrix teaching how intelligent features help organize, guide, and automate the future of work. Gain an understanding of the fundamentals of web services, APIs, and systems integrations through building microapps designed to boost employee productivity and optimize the end user experience. This three-day course will cover the fundamentals of Citrix Microapps, web services, security considerations and API troubleshooting to help you successfully deploy microapps in your environment.

## CWS-215

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

If you are new to Citrix or if you are planning a move to Citrix Cloud, this course is a necessary step in enabling you with the right training and skills to manage and deploy Citrix Workspace successfully.

This foundational administration course covers the aspects of installing, configuring and managing a Citrix Virtual Apps and Desktops 7 environment, how to manage an on-premises Citrix solution and migrate from an on-premises solution to cloud using the Citrix Cloud management plane. This five-day course will teach you how to deploy, install, configure, setup profile management, configure policies, printing and basic security features for on-premises Virtual Apps and Desktop solution building, and then migrating to Citrix Cloud.

## CMB-318

### Citrix Virtual Apps and Desktops 7, App Layering, and WEM Administration (Fast-Track)

Built for experienced IT Professionals new to Citrix Virtual Apps and Desktops 7 in an on-premises or Citrix Cloud environment looking to gain as much information as possible in the 5-day course. In this course you will learn the considerations and how-to setup a new Citrix Virtual Apps and Desktop site including advanced topics as WEM and App Layering allowing fast-track preparation for the CCP-V certification. Potential students include administrators or engineers responsible for the Citrix Apps and Desktop 7 Site. Some experience with previous versions of the product is recommended.

## CWS-313

### Citrix Virtual Apps and Desktops 7 Advanced Deployment, Troubleshooting, Security and Administration

Designed for experienced IT professionals this course builds on the foundational implementation and management skills introducing scalability, redundancy and security configurations. You will learn techniques to investigate many of the common issues that can affect environment health and how to solve issues more effectively in the advanced troubleshooting section. You will leave this course with a good understanding of how to manage more complex solutions such as multi-location environments with configurations around StoreFront, the Delivery Controllers, Cloud Connectors and HDX.

## CWS-314

### Citrix App Layering and WEM Administration

Designed for experienced IT professionals, you will learn to build and combine App Layers to optimize management of your app and desktop images and to implement Workspace Environment Management to improve logon times, centralize user settings management, and optimize the performance of machines. You will leave this course with a good understanding of how to manage more complex solutions and features in your Citrix Virtual Apps and Desktop 7 site.

# Digital Workspace – Course Catalog (continued)

## CWS-315

### Citrix Virtual Apps and Desktops 7 Advanced Administration

Designed to learn how to set up scalability, redundancy and security configurations.

You will learn advance features to optimize management of your app and desktop images by building and combining App Layers and Workspace Environment Management, which can improve logon times, centralize user settings management, optimize the performance of machines running the Virtual Delivery Agent (VDA). In the advanced troubleshooting section, you will learn techniques to investigate many of the common issues that can affect environment health. You'll leave this course with a good understanding of how to manage more complex solutions such as multizone environments spanning multiple locations with configurations around StoreFront, the Delivery Controllers, and HDX.

## CWS-316

### Citrix Provisioning 7 Administration

Improve your Citrix Virtual Apps and Desktops image management and performance with Citrix Provisioning. Learn to install and configure a highly available Citrix Provisioning farm according to leading practices. In this course, you will learn about the architecture, communication, and processes that make up Citrix Provisioning to be successful with deploying and managing a farm. Manage and integrate vDisks and target devices with Citrix Virtual Apps and Desktops for easy rollback, upgrades, and performance of Virtual Delivery Agent machines. At the end of this course you will be able to install, configure and manage the Citrix Provisioning 7 solution.

## CXD-250

### Moving to the Citrix Virtual Apps and Desktops Service on Citrix Cloud

Learn how to navigate the move from Citrix Virtual Apps and Desktops on-premises to the Citrix Cloud. Get hands-on as the course guides you through the architecture, communications, management, installation, and configuration of Citrix Cloud and the Cloud Connector. Learn about the many services available in Citrix Cloud and understand the considerations for migrating resources to a public cloud. If you are planning or considering a move to the Citrix Cloud, this course is a necessary step in enabling you with the right training and skills to understand, manage, and deliver a successful migration. Students will receive a Student Manual, Lab Exercise Guide, and access to a lab environment for the duration of the course.

## CEM-205

### Manage Citrix Endpoint Management

Students will explore how to manage Citrix Endpoint Management in this three day course. Venture into the cloud as students learn to manage devices, apps, and users. Students will learn how the architecture, management, and communication flow function with Citrix Endpoint Management Service and how they can fit their organization's needs. You will learn how to administer their Citrix Endpoint Management environment and how to support your end users, as well as working with applications and securing a variety of endpoints.

## CSF-201

### Citrix Content Collaboration Enterprise Essentials

Designed for students with little previous Citrix Content Collaboration experience. Learn the skills required to implement Citrix Content Collaboration components including the Citrix Content Collaboration for Windows client, Citrix Virtual Apps and Desktops client, and StorageZones. Learn to integrate Citrix Content Collaboration with key backend elements including Microsoft ADFS for single sign-on and understand the data flow behind it. Also learn to navigate the Citrix Content Collaboration control plane user interface. At the end of the course students will be able to configure and manage their Citrix Content Collaboration environments to address their Enterprise File Sharing and Sync requirements.

*\*CSF-202 eLearning course available*



# App Virtualization & VDI – Course Catalog

## CXD-251

### Citrix Virtual Apps and Desktops Service on Microsoft Azure

Learn to deploy and manage your Citrix Virtual Apps and Desktops in Microsoft Azure. Gain the skills to plan your machine catalog and virtual machine design based in Microsoft's public cloud and get hands-on practice deploying those machines using Machine Creation Services. You will also learn about additional Azure considerations including maintenance and power management which are critical in a cloud environment. For remote access, you will learn to configure Citrix StoreFront and Citrix Gateway on the Azure platform. This course focuses on Microsoft Azure as a Citrix Cloud resource location, however concepts are relevant to both Citrix Cloud and fully managed Citrix Virtual Apps and Desktops sites. If you are planning to move to Citrix Cloud, it is recommended that you enroll in CXD-252: Moving to the Citrix Virtual Apps and Desktops Service on Citrix Cloud and Microsoft Azure which includes both Citrix Cloud architecture and administration in addition to the content covered in this course in a 5-day format.

## CXD-252

### Moving to the Citrix Virtual Apps and Desktops Service on Citrix Cloud and Microsoft Azure

Navigate the move from an on-premises environment into Citrix Cloud and learn to deploy resource locations onto Microsoft Azure. Learn the architecture, communications, and management of Citrix Cloud and the Citrix Virtual Apps and Desktops Service and then migrate existing infrastructure and settings into Citrix Cloud. Plan machine catalog and virtual machine design based in Microsoft's public cloud and deploy those machines using Machine Creation Services. Additional Azure considerations include maintenance and power management. Learn to configure Citrix StoreFront and Gateway as a service within Citrix Cloud or as managed machines in your datacenter or on the Azure platform for remote access.

## CXD-253

### Citrix Virtual Apps and Desktops Service on Amazon Web Services

Learn to plan, create, maintain, and support your Citrix Virtual Apps and Desktops Service deployment using Amazon Web Services-based resource locations. Gain the skills needed to prepare your AWS environment for resource location virtual machines, and to provision VDAs in AWS using Machine Creation Services in Citrix Cloud. You will learn how to provide remote access to AWS-based published resources using Citrix Workspace, Citrix StoreFront, and Citrix Gateway. The remote access learning content is applicable to Citrix Cloud and Citrix on-premises deployments. You will also learn valuable leading practices for maintaining and managing your Citrix Virtual Apps and Desktops Service deployment, including those particular to deployments integrated with AWS, such as power management and the use of Autoscale. Together with the hands-on lab exercises, this course gives your organization the opportunity to create a successful Citrix Virtual Apps and Desktops Service deployment with AWS.

## CXD-254

### Moving to the Citrix Virtual Apps and Desktops Service on Citrix Cloud with Amazon Web Services

Navigate the move from an on-premises environment into Citrix Cloud and learn to deploy resource locations onto Amazon Web Services (AWS). Learn the architecture, communications, and management of Citrix Cloud and the Citrix Virtual Apps and Desktops Service and then migrate existing infrastructure and settings into Citrix Cloud. You will learn to plan, create, maintain, and support your Citrix Virtual Apps and Desktops Service deployment using Amazon Web Services-based resource locations. Gain the skills needed to prepare your AWS environment for resource location virtual machines, and to provision VDAs in AWS using Machine Creation Services in Citrix Cloud. You will learn how to provide remote access to AWS-based published resources using Citrix Workspace, Citrix StoreFront, and Citrix Gateway. The remote access learning content is applicable to Citrix Cloud and Citrix on-premises deployments. You will also learn valuable leading practices for maintaining and managing your Citrix Virtual Apps and Desktops Service deployment, including those particular to deployments integrated with AWS, such as power management and the use of Autoscale. Together with the hands-on lab exercises, this course gives your organization the opportunity to create a successful Citrix Virtual Apps and Desktops Service deployment with AWS.

# App Virtualization & VDI – Course Catalog

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## CXS-301

### Citrix Hypervisor 7.1 LTSR Administration

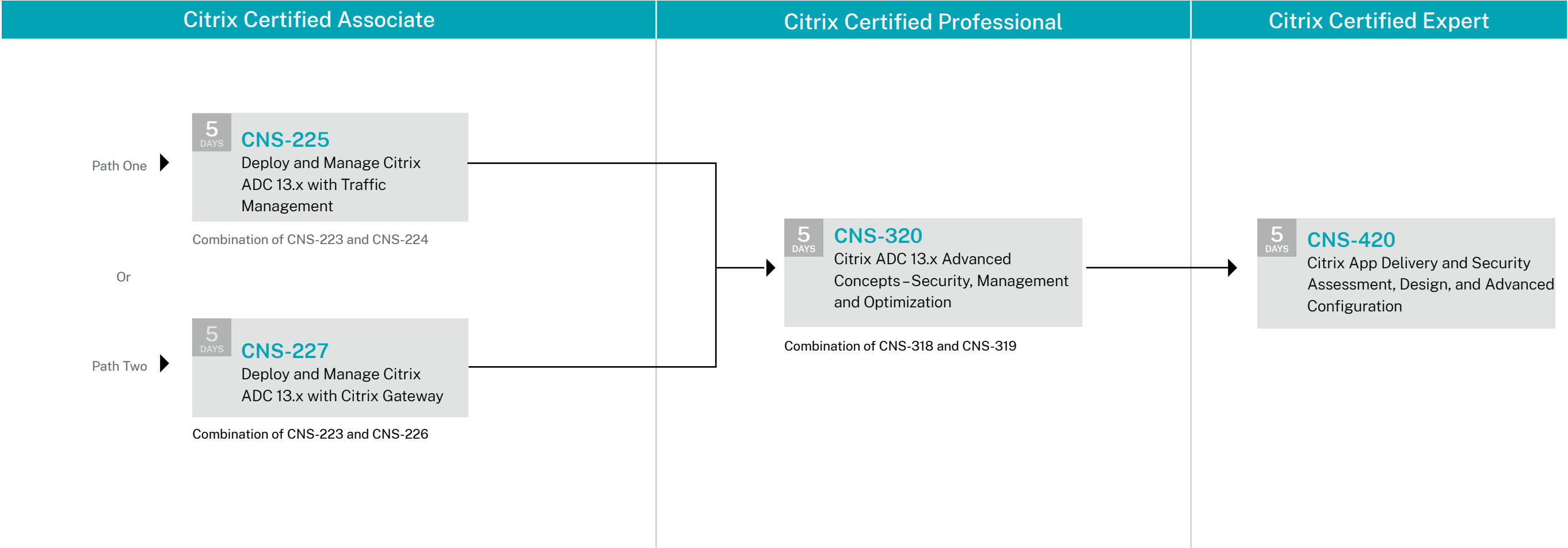
Designed for students without previous Citrix Hypervisor experience. This course provides the skills necessary to effectively design, deploy, manage and support Citrix Hypervisor 7.1 LTSR. Configure a complete enterprise solution – covering everything from installation to advanced troubleshooting in a virtual lab environment.

## CWS-415

### Citrix Virtual Apps and Desktops 7 Assessment, Design and Advanced Configuration

This advanced 5-day training course teaches the design principles for creating a Citrix Virtual Apps and Desktops virtualization solution. In this training, you will also learn how to assess existing environments, explore different scenarios, and make design decisions based on business requirements. This course covers the Citrix Consulting approach to design and covers the key design decisions through lectures, lab exercises, and interactive discussions. You will also learn about additional considerations and advanced configurations for multi-location solutions and disaster recovery planning. This training will help you prepare for the Citrix Certified Expert in Virtualization (CCE-V) exam.

# App Delivery and Security – Learning Journey



## Individual Training

3 DAYS

**CNS-223**  
Implement Citrix ADC 13.x

2 DAYS

**CNS-224**  
Implement Citrix ADC 13.x with Traffic Management

2 DAYS

**CNS-226**  
Implement Citrix ADC 13.x with Citrix Gateway

5 DAYS

**CNS-227**  
Deploy and Manage Citrix ADC 13.x with Citrix Gateway

3 DAYS

**CNS-318**  
Citrix ADC 12.x Advanced Concepts – Secure Web Application

2 DAYS

**CNS-319**  
Citrix ADC 12.x Advanced Concepts – Management and Optimization

3 DAYS

**CNS-231**  
Deploy and Manage Citrix SD-WAN 11.x

SD-WAN Certification Available



# App Delivery and Security – Course Catalog

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## CNS-231 NEW

### Deploy and Manage Citrix SD-WAN 11.x

In this three-day course, you will learn how Citrix SD-WAN can simplify branch networking for your organization. You'll walk away understanding how to configure and manage SD-WAN, including the SD-WAN architecture, deployment options, provisioning, and how to use Citrix SD-WAN Orchestrator in your environment. Additional topics include: branch office deployment, SD-WAN monitoring, reporting, and diagnostics.

## CNS-223

### Implement Citrix ADC 13.x

Learn the skills required to implement Citrix ADC Essential components including secure Load Balancing, High Availability, and Citrix ADC Management. At the end of the course, students will be able to configure their Citrix ADC environments to address traffic delivery and management requirements including Load Balancing, Availability, and ADC Operation Management.

## CNS-224

### Implement Citrix ADC 13.x with Traffic Management

Learn the skills required to configure and manage Citrix ADC Traffic Management features, including Content Switching, Traffic Optimization, and Global Server Load Balancing. At the end of the course, students will be able to configure their ADC environments to address efficient traffic switching and resilience requirements including Content Switching, Traffic Optimization, and Disaster Recovery.

## CNS-225 (Combination of CNS-223 and CNS-224)

### Deploy and Manage Citrix ADC 13.x with Traffic Management

Build your Citrix ADC knowledge and skills by enrolling in this five-day course. It covers Citrix ADC essentials--platforms, architecture, licensing and functionality –and also focuses on traffic management, including content switching, traffic optimization and global server load balancing (GSLB). You will learn about key ADC capabilities such as high availability, security and performance, and explore SSL offload, load balancing and monitoring. The traffic management curriculum will cover the AppExpert policy engine, the Rewrite and Responder features, and Content Switching.

## CNS-226

### Implement Citrix ADC 13.x with Citrix Gateway

Learn the skills required to configure and manage Citrix Gateway features. At the end of the course, students will be able to configure their Citrix Gateway environments to address remote access requirements for Apps and Desktops.

## CNS-227

### Deploy and Manage Citrix ADC 13.x with Citrix Gateway

Expand your Citrix networking knowledge and skills by enrolling in this five-day course. It covers Citrix ADC essentials, including secure load balancing, high availability and operations management, and also focuses on Citrix Gateway. You will learn to deliver secure remote access to apps and desktops integrating Citrix Virtual Apps and Citrix Desktops with Citrix Gateway.

# App Delivery and Security – Course Catalog

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## CNS-318

### Citrix ADC 12.x Advanced Concepts – Secure Web Applications

Designed for students with previous Citrix ADC experience, this course is best suited for individuals who will be deploying and/or managing Citrix ADC Application Firewall (AppFirewall) in Citrix ADC environments.

## CNS-319

### Citrix ADC 13.x Advanced Concepts – Management and Optimization

This course is designed for students with previous Citrix ADC experience, and best suited for individuals who will be deploying Citrix ADC Management and Analytics System (MAS) to administer a Citrix ADC environment or optimize Citrix ADC-managed application delivery traffic.

## CNS-320 (Combination of CNS-318 & CNS-319)

### Citrix ADC 12.x Advanced Concepts – Security, Management and Optimization

This course is designed for students with previous Citrix ADC experience, and best suited for individuals who will be deploying and/or managing Citrix ADC Application Firewall (AppFirewall) to secure application access in a Citrix ADC environment, as well as Citrix ADC Management and Analytics System (MAS) to administer a Citrix ADC environment or optimize Citrix ADC-managed application delivery traffic.

## CNS-420

### Citrix App Delivery and Security Assessment, Design, and Advanced Configuration

In this expert level 5-day training course you will be exposed to advanced networking and Citrix ADC concepts and configurations. Through lecture, lab exercises, and real-world case studies, you will learn to look critically at environment requirements, constraints, and business drivers to create a complex Citrix networking solution. Topics to be covered in this course include multi-site and multi-tenant deployments, advanced authentication and load balancing, and automation and orchestration and advanced troubleshooting.

**Corporate Headquarters**  
Fort Lauderdale, FL, USA

**Silicon Valley Headquarters**  
Santa Clara, CA, USA

**EMEA Headquarters**  
Schaffhausen, Switzerland

**About Citrix**  
Citrix (NASDAQ:CTXS) is leading the transition to software-defining the workplace, uniting virtualization, mobility management, networking and SaaS solutions to enable new ways for businesses and people to work better. Citrix solutions power business mobility through secure, mobile workspaces that provide people with instant access to apps, desktops, data and

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