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 right for you.
App Virtualization & VDI – Learning Journey

**Citrix Certified Associate**

Path One

- **5 DAYS**
  - CXD-210
    - XenApp and XenDesktop 7.1x Administration

Path Two

- **5 DAYS**
  - CMB - 310
    - XenApp, XenDesktop and Provisioning Services 7.1x Administration

**Citrix Certified Professional**

- **5 DAYS**
  - CXD-310
    - XenApp and XenDesktop 7.1x Advanced Administration

**Citrix Certified Expert**

- **5 DAYS**
  - CXD-410
    - XenApp and XenDesktop 7.1x Assessment, Design, and Advanced Configurations

Combination of CXD-303 and CXD-304.

Combination of CXD-210 and CXD-304.

Combination of CXD-210 and CXD-304.

Combination of CXD-250 and CXD-251.

**Cloud Training**

- **3 DAYS**
  - CXD-250
    - Moving to XenApp and XenDesktop Service on the Citrix Cloud

- **2 DAYS**
  - CXD-251
    - Citrix XenApp and XenDesktop Service on Microsoft Azure

- **5 DAYS**
  - CXD-252
    - Moving to the XenApp and XenDesktop Service on Citrix Cloud and Microsoft Azure

Combination of CXD-250 and CXD-251.
**CXD-105**
**XenApp and XenDesktop Help Desk Support**
Designed for help desk representatives supporting XenApp and XenDesktop, this two-day course will teach you how to efficiently troubleshoot, resolve and document user issues. These include determining root cause, deciding when to escalate and preventing recurrence. The course also covers common help desk issues such as authentication, printing and policies.

**CXD-210**
**XenApp and XenDesktop 7.1x Administration**
This foundational administration course covers the major aspects of installing, configuring and managing a highly available XenApp and XenDesktop 7.1x environment. Gain an understanding of the solution architecture and communications, and the factors that contribute to a successful deployment. This five-day course will teach you how to deploy and deliver apps and desktops; install and configure StoreFront and Citrix Receiver; set up profile management; and configure policies, printing and basic security features. You’ll also learn how to monitor and troubleshoot the environment with Citrix Director.

**CTX-272**
**Securing Citrix Virtualization Solutions**
Learn to secure your virtualization deployments with this two-day course that covers XenApp and XenDesktop. You’ll learn how to secure XenApp and XenDesktop traffic, understand when and where to secure traffic between XenApp and XenDesktop components, and advanced authentication implementations covering multi-factor authentication, Smart Card, SAML, and FAS.

**CXD-310**
**XenApp and XenDesktop 7.1x Advanced Administration**
Get more value out of your XenApp and XenDesktop investment through the use of Workspace Environment Management, Provisioning Services, Application Layering, and advanced features. You’ll leave this course with a good understanding of how to manage more complex solutions such as multi-zone environments spanning multiple locations with configurations around StoreFront, the Delivery Controllers, and HDX. You’ll gain the skills to improve logon times, user personalization, and resource performance through Workspace Environment Management. Also, learn to optimize management of your app and desktop images by building and combining App Layers. End the course by learning to install, configure, and manage Provisioning Services in accordance with leading practices.

**CXD-303**
**XenApp and XenDesktop 7.1x Advanced Management with App Layering, WEM, and HDX**
Get more value out of your XenApp and XenDesktop investment through the use of Workspace Environment Management, Application Layering, and advanced features. You’ll leave this course with a good understanding of how to manage more complex solutions such as multi-zone environments spanning multiple locations with configurations around StoreFront, the Delivery Controllers, and HDX. You’ll gain the skills to improve logon times, user personalization, and resource performance through Workspace Environment Management. Also, learn to optimize management of your app and desktop images by building and deploying App Layers with XenApp and XenDesktop.
App Virtualization & VDI – Course Catalog (continued)

CXD-304  
Citrix Provisioning Services 7.1x Administration
Learn to install and configure a highly available Provisioning Services farm according to leading practices. Learn about Provisioning Services architecture and communication. Manage and integrate vDisks and target devices with XenApp and XenDesktop for easy rollback, upgrades, and performance of Virtual Delivery Agent machines.

CMB-310  
XenApp, XenDesktop, and Provisioning Services 7.1x Administration (Fast Track)
Learn how to install, configure and manage a highly available XenApp and XenDesktop 7.1x environment plus a Provisioning Services 7.1x environment for image management. Understand the solution architecture/communications, and how to deploy/deliver apps and desktops (MCS and PVs); install StoreFront and Citrix Receiver; set up profile management; and configure policies, printing and basic security features.

CXD-250  
Moving to the XenApp and XenDesktop Service on Citrix Cloud
Navigate the move from an on-premises infrastructure to the XenApp and XenDesktop Service on Citrix Cloud. This course will teach you to install and configure Cloud Connectors and deliver app and desktop resources to on-premises locations. It covers design considerations for locating StoreFront and NetScaler Gateway in Citrix Cloud, and migrating workloads to a public cloud.

CXD-251  NEW
Citrix XenApp and XenDesktop Service on Microsoft Azure
Learn to deploy and manage your XenApp and XenDesktop workloads in Microsoft Azure. Gain the skills to plan your machine catalog design and virtual machine sizing based on Microsoft’s public cloud and explore additional Azure considerations including maintenance, power management, and access.

CXD-252  NEW
Moving to the XenApp and XenDesktop 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 XenApp and XenDesktop Service and then migrate existing infrastructure and settings into Citrix Cloud.

CXD-410  NEW
XenApp and XenDesktop 7.1x Assessment, Design, and Advanced Configurations
This advanced 5-day training course covers design principles for creating a practical XenApp and XenDesktop virtualization solution. As part of this training you will assess existing environments and explore different scenarios to link business requirements to design decisions. This course follows the Citrix Consulting approach to design and covers the key design decisions through lecture, lab exercises and interactive discussions. You will also learn about additional considerations and advanced configurations for multi-location solutions and disaster recovery planning.

CXA-206  
XenApp 6.5 Administration
This course on XenApp administration fundamentals will teach you to centralize and manage applications in the datacenter, and deliver them as a service to users anywhere. Topics include installing and configuring XenApp 6.5, Web Interface, StoreFront and Citrix Receiver, and using administrative consoles and tools to configure resources, policies, server and farm settings, and printers. This course helps prepare for the Citrix XenApp 6.5 Administration exam and corresponding associate certification.
App Virtualization & VDI – Course Catalog (continued)

CXS-301
Citrix XenServer 7.1 LTSR Administration
Designed for students without previous XenServer experience. This course provides the skills necessary to effectively design, deploy, manage and support Citrix XenServer 7.1 LTSR. Configure a complete enterprise solution – covering everything from installation to advanced troubleshooting in a virtual lab environment.
Networking – Learning Journey

**Citrix Certified Associate**

- **CNS-220**
  - Citrix NetScaler 12.x Essentials and Traffic Management
  - Combination of CNS-218 and CNS-219

**Citrix Certified Professional**

- **CNS-320**
  - Citrix NetScaler 12.x Advanced Topics – Security, Management, and Optimization
  - Combination of CNS-318 and CNS-319

**Citrix Certified Expert**

- **CNS-420**
  - Architecting a Citrix Networking Solution

### Path One

- **CNS-220**

### Path Two

- **CNS-222**
  - Citrix NetScaler 12.x Essentials and Unified Gateway
  - Combination of CNS-218 and CNS-221

**Individual Training**

- **CNS-218**
  - Citrix NetScaler Essentials
  - 3 days

- **CNS-219**
  - Citrix NetScaler Traffic Management
  - 2 days

- **CNS-221**
  - Citrix NetScaler Unified Gateway
  - 2 days

- **CNS-318**
  - Citrix NetScaler 12.x Advanced Topics – Secure Web Applications
  - 3 days

- **CNS-319**
  - Citrix NetScaler 12.x Advanced Topics – Management, and Optimization
  - 2 days

- **CTX-271**
  - Securing Citrix Networking and Mobility Solutions
  - 3 days

- **CNS-200W**
  - Citrix NetScaler SD-WAN Hands-on Workshop
  - 2 days

- **CNS-420**
  - Architecting a Citrix Networking Solution
  - 5 days

Limited Availability to EMEA and APJ

SD-WAN Certification Available
CNS-200W  NEW
Citrix NetScaler SD-WAN Hands-on Workshop
Learn the various SD-WAN implementations and deployment modes available, and how to choose the one that is right for your organization. Take a tour of the underlying architecture of SDWAN and learn how to differentiate between the various components. Understand how the different elements of SD-WAN come together to provide a better network experience.

CNS-218
Citrix NetScaler Essentials
Learn the skills be able to configure a NetScaler environments to address traffic delivery and management requirements including Load Balancing, Availability, and NetScaler Operation Management. Also learn the skills required to configure and manage NetScaler Citrix Traffic Management features, including Content Switching, Traffic Optimization, and Global Server Load Balancing.

CNS-219
Citrix NetScaler Traffic Management
Learn the skills required to configure and manage NetScaler Citrix 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 NetScaler environments to address efficient traffic switching and resilience requirements including Content Switching, Traffic Optimization, and Disaster Recovery.

CNS-220  (Combination of CNS-218 & CNS-219)
Citrix NetScaler 12x Essentials and Traffic Management
At the end of the course, students will be able to configure their NetScaler environments to address traffic delivery and management requirements including Load Balancing, Availability, and NetScaler Operation Management. Also learn the skills required to configure and manage NetScaler Citrix Traffic Management features, including Content Switching, Traffic Optimization, and Global Server Load Balancing.

CNS-221
Citrix NetScaler Unified Gateway
Learn the skills required to configure and manage NetScaler Gateway and Unified Gateway features, including how to implement Gateway components including NetScaler Gateway and Unified Gateway. At the end of the course, students will be able to configure their NetScaler environments to address remote access requirements for Apps and Desktops.

CNS-222  (Combination of CNS-218 & CNS-221)
Citrix NetScaler 12x Essentials and Unified Gateway
Learn the skills required to implement NetScaler components including secure Load Balancing, High Availability, and NetScaler Management, NetScaler Gateway and Unified Gateway features. At the end of the course, students will be able to configure their NetScaler environments to address traffic delivery and management requirements including load balancing, availability, and NetScaler operation management and to address remote access requirements for Apps and Desktops.
Networking – Course Catalog

CTX-271  NEW
Securing Citrix Networking and Mobility Solutions
Learn to secure your networking and mobility deployments with this three-day course that covers NetScaler, XenMobile and ShareFile. You’ll explore networking security fundamentals and learn about various network attacks, such as SSL exploits and how to protect your network against them. Understand how authentication, authorization, and auditing plays a role in both your networking and mobility environment, and how to augment security with multi-factor authentication. Explore certificates, policies, and the many management options for your deployments to lockdown your data with AppFirewall, Secure XenMobile applications, and Citrix ShareFile.

CNS-318
Citrix NetScaler 12.x Advanced Topics – Secure Web Applications
Designed for students with previous NetScaler experience, this course is best suited for individuals who will be deploying and/or managing Citrix NetScaler Application Firewall (AppFirewall) in Citrix NetScaler environments.

CNS-319
Citrix NetScaler 12.x Advanced Topics – Management and Optimization
This course is designed for students with previous NetScaler experience, and best suited for individuals who will be deploying NetScaler Management and Analytics System (MAS) to administer a Citrix NetScaler environment or optimize NetScaler-managed application delivery traffic.

CNS-320  NEW
Citrix NetScaler 12.x Advanced Topics – Security, Management, and Optimization
This course is designed for students with previous experience NetScaler experience, and best suited for individuals who will be deploying and/or managing Citrix NetScaler Application Firewall (AppFirewall) to secure application access in a Citrix NetScaler environment, as well as NetScaler Management and Analytics System (MAS) to administer a Citrix NetScaler environment or optimize NetScaler-managed application delivery traffic.

CNS-420  NEW
 Architecting a Citrix Networking Solution
In this expert level 5-day training course you will be exposed to advanced networking and NetScaler 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. This training will also prepare you for the Citrix Certified Expert in Networking (CCE-N) exam to be released in 2018.
## Mobility – Learning Journey

<table>
<thead>
<tr>
<th>Citrix Certified Associate</th>
<th>Citrix Certified Professional</th>
<th>Citrix Certified Expert</th>
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<tbody>
<tr>
<td>CXM-202 Managing and Supporting a Mobility Solution with Citrix XenMobile</td>
<td></td>
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<table>
<thead>
<tr>
<th></th>
<th>CXM-303 Deploying Enterprise Mobility Solutions with Citrix XenMobile</th>
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<tr>
<td>5 DAYS</td>
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### Individual Training

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Duration</th>
<th>Certification</th>
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<tbody>
<tr>
<td>CXM-202</td>
<td>Managing and Supporting a Mobility Solution with Citrix XenMobile</td>
<td>3 DAYS</td>
<td>No Certification tied to this course</td>
</tr>
<tr>
<td>CSF-201</td>
<td>Citrix ShareFile Enterprise Essentials</td>
<td>2 DAYS</td>
<td>ShareFile Certification available</td>
</tr>
<tr>
<td>CTX-271</td>
<td>Securing Citrix Networking and Mobility Solutions</td>
<td>3 DAYS</td>
<td></td>
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</tbody>
</table>
Mobility – Course Catalog

CXM-202 Managing and Supporting a Mobility Solution with Citrix XenMobile
This course provides the skills necessary to manage, support, and troubleshoot a Citrix XenMobile 10 Enterprise environment. Students with limited or no XenMobile experience will gain an understanding of what is required to maintain the components of a XenMobile Enterprise solution. Students will have access to hands-on exercises within a virtual lab environment to understand basic details behind the installation of solution controllers, to configure and test policies, manage device and application usage, perform troubleshooting and reporting, and more.

CXM-303 Deploying Enterprise Mobility with Citrix XenMobile
This course provides the skills necessary to install, configure, and integrate components in a Citrix XenMobile 10 Enterprise solution. Students with limited or no XenMobile experience will gain an understanding of the components of a XenMobile Enterprise solution and their functions. Students will deploy and configure the XenMobile Enterprise components, apply principles to enroll mobile devices, install mobile apps, and use policies to manage device and application usage in a lab environment. In addition, topics such as how to integrate additional Citrix products and applications as part of the solution and how to troubleshoot some of the most common implementation issues will be discussed.

CSF-201 Citrix ShareFile Enterprise Essentials
Designed for students with little previous ShareFile experience. Learn the skills required to implement ShareFile components including the ShareFile for Windows client, XenApp and XenDesktop client, and StorageZones. Learn to integrate ShareFile with key backend elements including Microsoft ADFS for single sign-on and understand the data flow behind it. Also learn to navigate the ShareFile control plane user interface. At the end of the course students will be able to configure and manage their ShareFile environments to address their Enterprise File Sharing and Sync requirements.

CTX-271 Securing Citrix Networking and Mobility Solutions
Learn to secure your networking and mobility deployments with this three-day course that covers NetScaler, XenMobile and ShareFile. You'll explore networking security fundamentals and learn about various network attacks, such as SSL exploits and how to protect your network against them. Understand how authentication, authorization, and auditing plays a role in both your networking and mobility environment, and how to augment security with multi-factor authentication. Explore certificates, policies, and the many management options for your deployments to lockdown your data with AppFirewall, Secure XenMobile applications, and Citrix ShareFile.
Cloud – Learning Journey

3 Days
CXD-250
Moving to XenApp and XenDesktop on Citrix Cloud

2 Days
CXD-251
Citrix XenApp and XenDesktop Service on Microsoft Azure

5 Days
CXD-252
Moving to the XenApp and XenDesktop Service on Citrix Cloud and Microsoft Cloud

Combination of CXD-250 and CXD-251
Cloud – Course Catalog

CXD-250  💡
Moving to XenApp and XenDesktop on Citrix Cloud
Learn how to navigate the move from XenApp and XenDesktop 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.

CXD-251  💡
Citrix XenApp and XenDesktop Service on Microsoft Azure
Learn to deploy and manage your XenApp and XenDesktop 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 NetScaler Gateway as a service within Citrix Cloud or as managed machines in your datacenter or on the Azure platform for remote access.

CXD-252  💡
Moving to the XenApp and XenDesktop 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 XenApp and XenDesktop 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 NetScaler Gateway as a service within Citrix Cloud or as managed machines in your datacenter or on the Azure platform for remote access.
Security – Learning Journey

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>CTX-270</td>
<td>Citrix Enterprise Security Solutions</td>
<td>5 days</td>
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<tr>
<td>CTX-271</td>
<td>Securing Citrix Networking and Mobility Solutions</td>
<td>3 days</td>
</tr>
<tr>
<td>CTX-272</td>
<td>Securing Citrix Virtualization Solutions</td>
<td>2 days</td>
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Combination of CTX-271 and CTX-272
Security – Course Catalog

CTX-270   NEW
Citrix Enterprise Security Solutions
Learn to secure your Citrix environment in this hands-on course that encompasses the core Citrix technologies, including XenApp and XenDesktop, NetScaler, XenMobile, ShareFile, and Citrix Cloud. Explore potential security gaps in your environment and learn how to mitigate these through a comprehensive look at the Citrix technologies. Topics include application and data security, Citrix authentication, authorization, and auditing workflows, operating system hardening, mitigation against network vulnerabilities, hypervisor security, and methods to secure Citrix traffic.

CTX-271   NEW
Securing Citrix Networking and Mobility Solutions
Learn to secure your networking and mobility deployments with this three-day course that covers NetScaler, XenMobile and ShareFile. You’ll explore networking security fundamentals and learn about various network attacks, such as SSL exploits and how to protect your network against them. Understand how authentication, authorization, and auditing plays a role in both your networking and mobility environment, and how to augment security with multi-factor authentication. Explore certificates, policies, and the many management options for your deployments to lockdown your data with AppFirewall, Secure XenMobile applications, and Citrix ShareFile.

CTX-272   NEW
Securing Citrix Virtualization Solutions
Learn to secure your virtualization deployments with this two-day course that covers XenApp and XenDesktop. You’ll learn how to secure XenApp and XenDesktop traffic, getting an understanding of when and where to secure traffic between XenApp and XenDesktop components, and advanced authentication implementations covering multifactor authentication, Smart Card, SAML, and FAS. Additionally, you’ll explore, how to protect your applications against vulnerabilities, Citrix Cloud security leading practices as well as operating system hardening, hypervisor security, and monitoring and operations Citrix recommended practices.
About Citrix
Citrix (NASDAQ:CTXS) is leading the transition to software-defining the workplace, unifying 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 communications on any device, over any network and cloud. With annual revenue in 2014 of $3.34 billion, Citrix solutions are in use at more than 330,000 organizations and by over 300 million users globally. Learn more at www.citrix.com.

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