

# COURSE OVERVIEW

**Course Name:**  
(CNS-420) Citrix  
Networking Assessment,  
Design and Advanced  
Configuration

**COURSE DURATION: 5 Days**

**Gauteng:**

3rd Floor, 34 Whitely Road  
Melrose Arch  
Johannesburg  
2196

**Gauteng:**

192 on Bram  
192 Bram Fischer Drive  
Ferndale, Randburg  
Johannesburg  
2160

**Cape Town:**

3rd Floor, Thomas Pattullo Building  
19 Jan Smuts St  
Cape Town  
8000

**Durban:**

9 Mountview Close  
Broadlands  
Mount Edgecombe  
Durban  
4302



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## INTRODUCTION

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 multitenant 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.

## DELIVERY METHOD

Our courses have flexible delivery options:

- In-person classroom training at the Impactful training facilities
  - Johannesburg, Durban, Cape Town
- Virtual instructor-led training
- Nationally: on-site at the client



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## INTENDED AUDIENCE

Built for IT Professionals with extensive networking and Citrix ADC experience. This course is built for IT Professionals who are responsible for defining the overall structure or architecture of a Citrix networking environment. This course encompasses advanced Citrix networking configurations and leading Citrix design principles.

## PREREQUISITES

This course assumes that the student has significant networking and Citrix Networking experience. Citrix recommends a comprehensive understanding of basic and intermediate Citrix ADC features and functionalities. Proficiency in the topics covered in CNS-220; CNS-222; and CNS-320 is strongly recommended.

## LEARNING OBJECTIVES

- How to identify and prioritize business drivers, constraints, and requirements using the Citrix Consulting methodology.
- Assess environment requirements and learn to apply leading design principles to address them in a multi-site Citrix ADC deployment.
- Apply advanced authentication and load balancing principles.

## COURSE CONTENT

At course completion, students will have the skills and knowledge to:

### Module 1: Networking Methodology and Assessment

- Understanding the Citrix methodology
- Business Drivers and Requirements
- User Segmentation
- Application Assessment
- Capabilities Assessment

### Module 2: Citrix Networking Deployment Architecture and Topology

- Multi-Site Deployments
- Multi Tenant Infrastructure
- Cloud Deployments
- High Availability
- Citrix ADC Double-Hop Scenarios
- Secure Web Gateway

### Module 3: Advanced Authentication and Authorization

- Authorization Policies
- Access Policies
- Advanced Authentication Options
- Multi-Factor Authentication
- nFactor Authentication
- AAA Session Management

### Module 4: Citrix ADC Security

- Authorization
- Pre-authentication and Endpoint Analysis Scans
- Protection against Layer 4-7 Attacks
- Web App Firewall

### Module 5: Citrix Gateway Configuration Considerations

- ICA Proxy Configuration
- VPN Access
- Clientless Access
- Split Tunneling
- RDP Proxy Deployment and Configuration

### Module 6: Advanced Load Distribution and Link Load balancing

- Advanced Load Balancing
- Advanced Load Balancing
- Link Load Balancing
- Firewall Load Balancing
- Microsoft Exchange Load Balancing
- Advanced Global Server Load Balancing
- Global Server Load Balancing Persistence
- DNS, Policies, Expressions, Actions, and Views
- GSLB Monitoring and Considerations

### Module 7: Application Delivery Management Automation and Orchestration

- Application Delivery Management Outbound Traffic Dashboard
- Automation
- Orchestration
- Configuration Jobs
- Configuration Audit
- NITRO API
- StyleBooks (Net-new)

## LEARNING PATH

