COURSE OVERVIEW

Course Name:
(CXS-301) Citrix XenServer 7.1 LTST Administration

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

📞 **087 941 5764**
✉ **sales@impactful.co.za**
🌐 **impactful.co.za**

INTRODUCTION

Build a new skill set around Citrix XenServer 7.x focusing on the 7.1 Long Term Services Release, which delivers optimized server virtualization for all datacenter workloads. In this five-day course, you'll learn how to install, manage, secure, size and troubleshoot an enterprise XenServer implementation. The course will walk you through configuration and administration of the environment, from architecture and virtual machines to resource pools, storage and networking. Key topics will include capabilities such as virtual CPU optimization, VM management, and high availability/disaster recovery, and features such as Intellicache and XenMotion. This course is designed for IT professionals with little or no XenServer experience.

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

IMPACTFUL
Powered by LRMG

INTENDED AUDIENCE

Built for IT Professionals who need to design, deploy, manage, and support Citrix XenServer. Potential students include administrators, engineers, or architects working with Citrix XenServer for both XenApp and XenDesktop workloads as well as general infrastructure use.

PREREQUISITES

This course requires little to no previous experience with Citrix XenServer.

LEARNING OBJECTIVES

- Understand XenServer architecture, features, and leading practices.
- Configure and manage virtual machines.
- Install, configure, and manage XenServer and the XenServer environment.
- Configure Resource Pools and high availability in the XenServer environment.
- Configure network, storage, and security for XenServer.
- Troubleshoot the XenServer environment.

COURSE CONTENT

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

Module 1: XenServer Architecture
- Describing the XenServer virtualization platform
- Product editions and entitlements
- XenServer architecture
- XenServer key components

Module 2: Managing Virtual Machines
- Virtualization techniques
- XenTools
- Creating virtual machines
- Managing virtual machines
- Understanding vApps
- Managing snapshot

Module 3: Installing XenServer
- Hardware requirements
- Licensing
- Available installation methods
- XenServer supplemental packs

Module 4: Managing a XenServer Environment
- Deploying hotfixes
- Upgrading XenServer
- Upgrading XenTools
- Monitoring and alerting
- Pool metadata backups

Module 5: Resource Pools
- Understanding resource pools
- XenServer pool master
- Pool master election
- Workload balancing

Module 6: Networking
- XenServer networking architecture
- Virtual network types
- Network interface bonds
- XenServer physical connectivity

Module 7: Storage
- XenServer storage architecture
- Understanding thick and thin provisioning
- Storage locations
- File based and block based storage
- Storage multipathing
- XenServer Intellicache
- XenServer in-memory read caching
- XenApp and XenDesktop Provisioning enhancements

Module 8: High Availability
- Purpose of high availability
- High availability recommendations
- Detecting a host failure
- High availability recovery process

Module 9: Security
- Integrating with Active Directory
- Understanding role-based access
- Minimizing the attack surface
- Certificates and SSL with XenServer
- XenServer Hypervisor Introspection Direct Inspect API

Module 10: Sizing and Optimizations
- Dom0 sizing
- Dom0 in-memory reach caching
- Virtual CPU optimization
- Device pass-through
- Dynamic memory control
- Resource scheduling
- Network QoS
- Disk prioritization
- XenServer vGPU and GPU pass-through

Module 11: Troubleshooting
- XenServer maintenance mode
- Host logs and event notifications
- Xsconsole
- XenTop
- Command line and PowerShell commands
- Using Citrix Insight Services
- Network tracing

IMPACTFUL
Powered by LRMG