



Ministry of cooperatives
Labour and Social Welfare



Iran Technical and Vocational
Training Organization

Deputy of training
Plan and curriculums office

Competency Training standard

Title

**CXD-300: Deploying App and Desktop
Solutions with Citrix XenApp and
XenDesktop 7.6**

*Iran Technical and Vocational
Training Organization*

Occupational group
INFORMATION TECHNOLOGY (IT)

International code

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Revision Process:

- Scientific content
- According to market
- Equipment
- Tools

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Definitions:

Job standard:

The characteristics ' required competencies and abilities for Efficient Performance in work environment is called "the Job standard", and sometimes “The Occupational standard”

Training standard:

The Training Map for achieving the Job’s subset Competencies.

Job title:

Is a set of Tasks and Abilities which is expected from an employed person in the defined level

Job description:

A statement covering the most important elements of a job, namely the position or title of the job, the duties, job’s relation with other jobs in a occupational field, the responsibilities, workplace conditions and required performance standards.

Course duration:

The minimum of time which is required to achieve the training objects.

Admission requirements:

The minimum of competencies and abilities which are obligatory for a potential admission.

Evaluation:

The process of collecting evidence and judgment about whether a competency is achieved or not.
Include: written examination, practical examination

Required Qualifications for Trainers:

The minimum of Trainer’s technical and vocational abilities which the trainer is required to have.

Competency:

The ability of efficient performing a duty in a variety of workplaces conditions

Knowledge:

The minimum set of facts and mental capacities which is necessary for achieving a competency. This can include science, (Mathematics, physics, chemistry or biology), technology or technical.

Skill:

The minimum coordination between mind and body for achieving an ability or competency. It normally applied to practical skills.

Attitude:

A set of emotional behaviors required for achieving a competency and can have non-technical skills and occupational ethics.

Safety:

The cases which doing or not doing something can cause harm or accident

Environmental Consideration:

A set of consideration about the act which should be done to minimize the environmental damage or pollution.

Competency Title:**Deploying App and Desktop Solutions with Citrix XenApp and XenDesktop 7.6****Competency Description:**

This course provides students with the skills required to successfully deploy a complete Citrix hosted application and desktop virtualization solution in a Windows Server 2012 R2 environment. Throughout this course, students will learn how to configure an environment that includes the following Citrix components: XenServer, XenDesktop, Citrix License Server, MCS, PVS, Personal vDisk, StoreFront, NetScaler (ICA Proxy, Load Balancing, Endpoint Analysis), and Citrix Receiver. Upon course completion, students will be able to build a XenDesktop 7.6 environment from scratch and test the implementation to ensure that all components work as expected and that both internal and external end users can access XenDesktop resources successfully.

Admission Requirements:

minimum degree of education: Post first year of high school

minimum physical and mental ability:-

Prerequisite skills: Citrix CCA-V

Course duration:

Course duration: 54 hours

-Theoretical :14 Hours

-Practical :40 Hours

-Apprenticeship:... Hours

-Project:... Hours

Evaluation :(%)

Exam Time for Native English speakers	180 minutes
Exam Time for Non-native English speakers	210 minutes
Number of questions	72
Exam Number	1Y0-301
Associate Certification	Citrix Certified Professional - Virtualization (CCA-P)

IRANTVTO Evaluation :(%)

Written Examination:25%

Practical Examination:65%

Ethics:10%

Required Qualifications for Trainers:

Computer or IT or ART related Bachelor with 2 years' experience

Training standard
Contents analysis form

Title: Understanding the XenDesktop Architecture	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: - Understanding the XenDesktop Architecture - XenDesktop Desktop Virtualization Technologies - Infrastructure Components - Citrix Components - Designing a XenDesktop Implementation - Design Document	Determined by the instructor			From Citrix
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				

Training standard

Contents analysis form

Title: Set up the hypervisor	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: - Setting Up the Hypervisor - Installing the Hypervisor - Installing the Hypervisor Management Console - Configuring the Hypervisor - Creating Templates - Reinforcement Exercise – Creating a Windows 7 Template	Determined by the instructor			From Citrix
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				

Title:	time			
	theoretical	practical	total	
Set up the infrastructure components	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: - Setting Up the Infrastructure Components - Setting Up the Domain Controller - Setting Up the Dynamic Host Configuration Protocol - Setting Up a Certificate Authority - Setting Up the File Server - Setting Up SQL Server 2012 - Setting Up SQL Server Mirroring - Reinforcement Exercise – Redirecting Additional Folders	Determined by the instructor			From Citrix
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				

Title: Set up XenDesktop 7.6 components	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: <ul style="list-style-type: none"> - Setting Up Citrix Components - Setting Up the Citrix License Server - Setting Up the Delivery Controller - Setting Up a Second Controller - Setting Up the Citrix Universal Print Server - Setting Up StoreFront - Setting Up a Second StoreFront Server - Setting Up Receiver - Reinforcement Exercise – Using the Receiver for Web Site 	Determined by the instructor			From Citrix
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				

Title: Configure XenDesktop 7.6 resources	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: - Setting Up XenDesktop Resources - Resources - Preparing the Master Virtual Machine - Setting Up a Server OS Master Image - Setting Up a Desktop OS Master Image - Creating a Machine Catalog - Creating a Delivery Group - Reinforcement Exercise – Adding Machines and Delivery Groups	Determined by the instructor			From Citrix
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				

Title:	time			
	theoretical	practical	total	
	Configure profiles and policies	Determined by the instructor		
Knowledge ,skill ,attitude ,safety, Environmental Consideration			Equipments ,tools, materials ,books	
Knowledge and Skill: - Setting Up Policies - Installing the Group Policy Management Feature - Configuring Printing Policies - Configuring Remote Assistance - Prioritizing the Policies - Running the Resultant Set of Policy - Setting Up Citrix Profile Management - Reinforcement Exercise – Configuring a Session Printer	Determined by the instructor			From Citrix
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				

Title: Set up Provisioning Services	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: <ul style="list-style-type: none"> - Setting Up Provisioning Services - Provisioning Services Architecture - Setting Up a Provisioning Services Server - Installing the Provisioning Services Console - Configuring Boot from Network - Setting Up a Second Provisioning Services Server - Configuring the BootStrap File for High Availability - Configuring the Master Target Device - Creating the vDisk - Assigning a vDisk to a Target Device - Creating the Machine Catalog - Creating the Delivery Group - Reinforcement Exercise – Creating BDM Target Device 	Determined by the instructor			From Citrix
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				

Training standard

Contents analysis form

Title: Validate the implementation	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: - Preparing the Environment for Rollout - Testing a Service Account - Testing the DHCP Scope - Testing the Certificates - Testing the Provisioning Services Share - Verifying Internal Access to Hosted Applications - Verifying Internal Access to a Server OS Machine (PVS) - Verifying Internal Access to a Desktop OS Machine - Testing Remote Assistance - Testing Delivery Controller High Availability - Testing SQL Server Mirroring - Reinforcement Exercise – Verifying Internal Access to a Server OS Machine (MCS)	Determined by the instructor			From Citrix
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				

Training standard

Contents analysis form

Title: Set up NetScaler to provide external access to XenDesktop 7.6 resources	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: - Setting Up NetScaler - Performing the Initial NetScaler Configuration - Configuring NTP - Configuring NetScaler High Availability - Setting Up DNS - Creating Certificates for NetScaler - Load Balancing StoreFront Servers - Configuring NetScaler for Remote Access - Redirecting HTTP Requests for StoreFront - Modifying StoreFront to Integrate with NetScaler - Configuring ICA Proxy - Configuring Authentication Policies - Configuring NetScaler for Email – Based Account Discovery - Reinforcement Exercise – Scanning an Endpoint for a File	Determined by the instructor			From Citrix
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				