



Ministry of cooperatives
Labour and Social Welfare



Iran Technical and Vocational
Training Organization

Deputy of training
Plan and curriculums office

Competency Training standard

Title

**640-916: Introducing Cisco Data Center
Technologies (DCICT)**

*Iran Technical and Vocational
Training Organization*
Occupational group
INFORMATION TECHNOLOGY (IT)

International code

2523-53-155-1

Date of Standard Compilation: 2016/03/05

Control of board on content compilation and accreditation: Plan and curriculums office
National code: 2523-53-155-1

Member of Specialized commission IT Curriculum development:

- Ali Mosavi: Director Manager of Iran TVTO Curriculum Development Office
- Cirrus Soltani nejad(Head of the General Department of Vocational Hormozgan)
- Ramak Farahabad(Deputy for Planning and Training)
- Golzar nazari gazi(Vice Minister of the General Administration of professional technical and Hormozgan)
- fatemeh taheri (Expert technical and vocational education, the Department of Hormozgan)
- Asma Karimi: Director of Information Technology Training Center in Bandar Abbas
- mohamamd reza kanjeh moradi: Director Manager of Iran TVTO Curriculum Development Office
- Shahram Shokofian: Manager of Iran TVTO IT Curriculum Development

Cooperator Specialized organizations for compiling the training standard :

- Kharazmi Technical and Vocational Training Institute
- Kharazmi IT Academy Technical and Vocational Training Institute
- Jahan Danesh Kharazmi Co. Bandar Abbas, Iran

Revision Process:

- Scientific content
- According to market
- Equipment
- Tools

Plan & Curriculum Office
97, nosrat avenue –Tehran, Iran

Tel:+98-21-66569900-9

Fax: +98-21-66944117

E-mail:Barnamehdarci@yahoo.com

	Name & family name	Academic document	field	Job & post	Relevant experiences	Add & Tel & Email
1	Abdolreza Yousefi	B.S	Business Management	Manager	Kharazmi Institute Jahan Danesh Kharazmi CO.	Hormozgan 09176798363 ykharazmi@yahoo.com
2	Ezat Heiat Hossinian	M.SC	Software engineer	Manager	Kharazmi Institute Jahan Danesh Kharazmi CO.	Hormozgan 09179542551 e-hoossini@kharazmi- ir.com
3	Fatemeh Vakili	B. SC	Software engineer	Computer Coach	Kharazmi Technical and Vocational Training Institute	Hormozgan 09391724144
4	Parsa Yousefi	Diploma	Network Engineer	Technical Engineer	Kharazmi Institute Jahan Danesh Kharazmi CO.	Hormozgan P.yousefi97@gmail.com
5						
6	<i>Iran Technical and Vocational Training Organization</i>					
7						
8						
9						

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:**Introducing Cisco Data Center Technologies (DCICT)****Competency Description:**

Introducing Cisco Data Center Cisco technologies, including Unified Computing / virtualization and Unified Fabric (Nexus product family and Storage Networking). Interworking with Catalyst 6500 and non-Cisco products for the virtualization of the computing environment will also be covered. The course reflects the need to onboard a variety of learners who may be specialized in some of the Data Center technologies, but who need to be able to perform in a broader role.

Admission Requirements:

minimum degree of education: Post first year of high school

minimum physical and mental ability:-

Prerequisite skills: Comptia Network+ Certification OR Cisco CCENT OR Cisco 640-911

Course duration:

Course duration: 40 hours

-Theoretical :10 Hours

-Practical :30 Hours

-Apprenticeship:... Hours

-Project:... Hours

Evaluation :(%)

Exam Time	90 minutes
Number of questions	65-75
Exam Number	640-916
Associate Certification	CCNA Data Center Certification

IRANTVTO Evaluation :(%)

Written Examination:25%

Practical Examination:65%

Ethics:10%

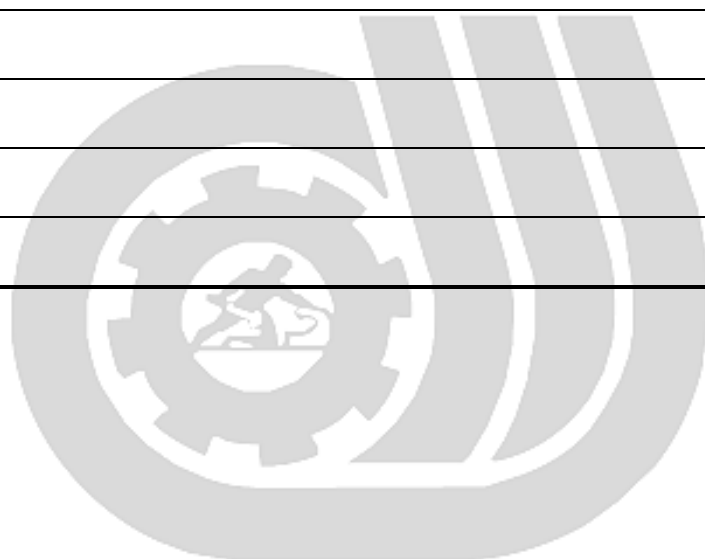
Required Qualifications for Trainers:

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

Competency Training Standard

Competencies

	Title
1	Cisco Data Center Fundamentals Concepts
2	Data Center Unified Fabric
3	Storage Networkin
4	DC Virtualization
5	Unified Computing
6	Data Center Network Services



*Iran Technical and Vocational
Training Organization*

Training standard

Contents analysis form

Title: Cisco Data Center Fundamentals Concepts	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill:	Determined by the instructor			From Cisco
Describe network architectures for the Data Center				
describe the purpose and functions of various network devices				
- LAN				
- SAN				
Describe the Modular Approach in Network Design				
Describe the data center core layer				
Describe the data center aggregation layer				
Describe the data center access layer				
Describe the collapse core model				
Describe FabricPath				
Identify key differentiator between DCI and network interconnectivity				
Describe, configure, and verify vPC				
Describe the functionality of and configuration of port channels				
Describe and configure virtual device context (VDC)				
Describe the edge/core layers of the SAN				
Describe the Cisco Nexus product family				
Configure and verify network connectivity				
Identify control and data plane traffic				
Perform initial set up				
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: Data Center Unified Fabric	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: Describe FCoE Describe FCoE multihop Describe VIFs Describe FEX products Perform initial set up	Determined by the instructor			From Cisco
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: Storage Networking	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: Describe initiator target Verify SAN switch operations Describe basic SAN connectivity Describe the different storage array connectivity Verify name server login Describe, configure, and verify zoning Perform initial set up Describe, configure, and verify VSAN	Determined by the instructor			From Cisco
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				

*Iran Technical and Vocational
Training Organization*

Training standard

Contents analysis form

Title: DC Virtualization	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: - Describe device Virtualization - Describe Server Virtualization - Describe Nexus 1000v - Verify initial set up and operation for Nexus 1k	Determined by the instructor			From Cisco
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

Training standard

Contents analysis form

Title: Unified Computing	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: Describe and verify discovery operation Describe, configure, and verify connectivity Perform initial set up Describe the key features of UCSM	Determined by the instructor			From Cisco
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: Data Center Network Services	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: Describe standard ACE features for load balancing Describe server load balancing virtual context and HA Describe server load balancing management options Describe the benefits of Cisco Global Load Balancing Solution Describe how the Cisco global load balancing solution integrates with local Cisco load balancers Describe Cisco WAAS needs and advantages in the Data Center.	Determined by the instructor			From Cisco
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				