



Deputy of training Plan and curriculums office

Competency Training standard

Title

210-451: Cisco Cloud Fundamentals (CLDFND)

Occupational group INFORMATION TECHNOLOGY (IT)

International code

2523-53-153-1

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Revision Process:

- Scientific content
- According to market echnical and Vocational
- 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 wetter 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:

Cisco Cloud Fundamentals (CLDFND)

Competency Description:

The Understanding Cisco Cloud Fundamentals course is designed to provide students with the necessary knowledge, skills and abilities (KSA) to perform foundational tasks related to Cloud computing. It teaches the characteristics and deployment models of a Cloud network. Upon course completion, students will be able to:

- Describe common cloud characteristics
- Describe and Identify the cloud service models
- Describe and Compare cloud deployment models
- Identify cloud deployment decision factors
- Identify and Illustrate key features of UCS
- Define server virtualization

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

Course duration:

Course duration: 48 hours

-Theoretical :18 Hours -Practical :30 Hours

-Apprenticeship:... Hours

-Project:... Hours

Evaluation:(%)

Exam Time C C C C C C C C C	90 minutes () (1 1 1 1 1 1 1 1 1
Number of questions	55-65
Training	raanization
Exam Number	210-451
Associate Certification	CCNA Cloud

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	Cloud Characteristics and Models			
2	Cloud Deployment			
3	Basic Knowledge of Cloud Compute			
4	Basic Knowledge of Cloud Networking			
5	Basic Knowledge of Cloud Storage			

Iran Technical and Vocational Training Organization Training standard
Contents analysis form

	time			
theoretical	practical	total		
Determined	by the inst	ructor		
			Equipments	
eration			,tools, materials	
			,books	
Determined	by the inst	ructor	From Cisco	
7 7			7	
Iran Technical and Vocat				
Health & Safety: Training Organizatio				
	Determined Partial Determined Pa	theoretical practical Determined by the inst	theoretical practical total Determined by the instructor Determined by the instructor	

Training standard Contents analysis form

Title:	time			
	theoretical	practical	total	
Cloud Deployment	Determined	by the		
	instructor			
Knowledge ,skill ,attitude ,safety, Environmental Co	onsideration			Equipments ,tools, materials ,books
Knowledge and Skill:	Determined	by the		From Cisco
Describe cloud deployment models - Public - Private - Community - Hybrid Describe the Components of the Cisco Intercloud Solution - Describe the benefits of Cisco Intercloud - Describe Cisco Intercloud Fabric Services Attitude: Speed and accuracy in doing the right thing	instructor			
Health & Safety: Compliance with safety protection in the workplace	ional n			
Environmental Consideration:				
Compliance with environmental protection				

Training standard Contents analysis form

Title:	time			
	theoretical	practical	total	
Basic Knowledge of Cloud	Determined by the			
Compute	instructor			
				Equipments
Knowledge ,skill ,attitude ,safety, Environmental C	onsideration			,tools, materials
Vnoviledge and Skills	Datamainad	hvy the		,books
Knowledge and Skill:	Determined	by the		From Cisco
Identify key features of Cisco UCS - Cisco UCS Manager	instructor		L	
- Cisco UCS Central - B-Series				
- C-Series				
- Server identity (profiles, templates, pools) Describe Server Virtualization				
- Basic knowledge of different OS and hypervisors				
	/ /			
Attitude:			1	
Speed and accuracy in doing the right thing				
	7			~
Iran Technical	at	ional		
Health & Safety.				
Compliance with safety protection in the workplace	ioi	17		
Compliance with safety protection in the workplace	8011	v_cvv	101	ı
Environmental Consideration:				
Compliance with environmental protection				

Title:	time			
	theoretical	practical	total	
Basic Knowledge of Cloud	Determined	by the	'	
Networking	instructor			
Knowledge ,skill ,attitude ,safety, Environmental Con	nsideration			Equipments ,tools, materials ,books
Knowledge and Skill:	Determined	by the		From Cisco
Describe network architectures for the data center - Cisco Unified Fabric - Describe the Cisco Nexus product family - Describe device virtualization - SDN - Separation of control and data - Programmability - Basic understanding Open Daylight - ACI - Describe how ACI solves the problem not addressed by SDN - Describe benefits of leaf/spine architecture - Describe the role of APIC Controller Describe Infrastructure Virtualization - Difference between vSwitch and DVS - Cisco Nexus 1000V components - VSM - VEM - VSM appliance - Difference between VLAN and VXLAN - Virtual networking services - Define Virtual Application Containers - Three-tier application container - Custom container				onal
Attitude:		I		
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:	time	
	theoretical practical total	
Basic Knowledge of Cloud Storage	Determined by the instructor	
Knowledge ,skill ,attitude ,safety, Environmental Co	onsideration	Equipments ,tools, materials ,books
Knowledge and Skill: Describe storage provisioning concepts - Thick - Thin - RAID - Disk pools	Determined by the instructor	From Cisco
Describe the difference between all the storage access technologies - Difference between SAN and NAS; block and file - Block technologies - File technologies Describe basic SAN storage concepts - Initiator, target, zoning - VSAN - LUN		
Describe basic NAS storage concepts - Shares / mount points - Permissions Describe the various Cisco storage network devices - Cisco MDS family - Cisco Nexus family - UCS Invicta (Whiptail) Describe various integrated infrastructures - FlexPod (NetApp) - VBlock (VCE) - VSPEX (EMC) - OpenBlock (Red Hat)	and Focat ganizatio	
Attitude: Speed and accuracy in doing the right thing		
Health & Safety: Compliance with safety protection in the workplace Environmental Consideration: Compliance with environmental protection	;	