Deputy of training

Plan and curriculums office

Competency Training standard

Title

210-455: Introducing Cisco Cloud Administration (CLDADM)

Occupational group

INFORMATION TECHNOLOGY (IT)

International code

2523-53-160-1

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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 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:

Introducing Cisco Cloud Administration (CLDADM)

Competency Description:

The Introducing Cisco Cloud Administration (CLDADM) course is designed to help students prepare for the CCNA Cloud certification. This course covers the basic features and operation of Cisco UCS Director (UCSD) and Cisco Intelligent Automation for Cloud (CIAC) products. It includes coverage of Cloud provisioning, management, monitoring, reporting, charge-back models, and remediation. After completing the course, students will be able to:

- Identify the components of the Cisco Cloud management software solution
- Understand the fundamentals of Cloud infrastructure administration
- Describe reporting and charge-back
- Provision Clouds using pre-configured templates
- Perform Cloud management, monitoring and remediation

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	90 minutes
Number of questions	55-65
Exam Number	210-455
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 Infrastructure Administration and Reporting**
2	**Chargeback and Billing Reports**
3	**Cloud Provisioning**
4	**Cloud Systems Management and Monitoring**
5	**Cloud Remediation**

Training standard

Contents analysis form

Title:	time			
	theoretical	practical	total	
Cloud Infrastructure Administration and Reporting	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill:	Determined by the instructor			From Cisco
Configure users/groups and role-based access control in the portal, including basic troubleshooting				
- Describe default roles				
- Configure new user with single role				
- Describe multirole user profiles				
- Configure a user profile				
Perform virtual machine operations				
- Configure live migrations of VMs from host to host				
- Edit VM				
- Configure VM snapshots				
- Describe reverting a VM to a snapshot				
Deploy virtual app containers				
- Provide basic support and troubleshoot app container with firewall, networking, and load balancer				
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:

Chargeback and Billing Reports	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books

Knowledge and Skill:
 	
Describe the chargeback model
   - Describe chargeback features
   - Describe budget policy
   - Describe cost models
   - Describe adding a cost model to a tenant
Generate various reports for virtual and physical accounts
   - Execute billing reports
   - Execute a system utilization reporting
   - Execute a snapshot report
	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				

Title: Cloud Provisioning	time			
	theoretical	practical	total	
	Determined by the instructor			

Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: Describe predefined Cisco UCS Director-based services within the Cisco Prime Service Catalog	Determined by the instructor			From Cisco
- Describe the configuration of service names and icons				
- Describe order permissions				
- RBAC - Describe template formats				
- Storage - Compute - Network - Virtualization Describe provisioning verification - Describe how to place an order for a service from the Cisco Primer Service Catalog as an end-user - Verify that provisioning is done correctly - Access VMs and applications that have been provisioned - Deploy preconfigured templates and make minor changes to the service catalog offerings that do not affect workflows or services - Learn the deployment of templates: storage, compute, network, and virtualization - Describe differences between the templates - Describe the need to convert between templates				
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: Cloud Systems Management and Monitoring	time			
	theoretical	practical	total	
	Determined by the instructor			

Knowledge ,skill ,attitude ,safety, Environmental Consideration	Equipments ,tools, materials ,books

Knowledge and Skill:
 	
-Identify the components of Cisco Prime Service Catalog
   - End-user store front
   - Stack designer
   - Heat orchestration
Describe the components of Cisco UCS Director
   - Describe infrastructure management and monitoring
   - Describe orchestration
   - Describe the portal
   - Describe the Bare Metal Agent
Describe Cisco UCS Performance Manager
   - Describe capacity planning
   - Describe bandwidth monitoring
   - Describe how host groups facilitate dynamic monitoring
Describe the components of Cisco IAC
   - Describe Cisco Process Orchestrator
   - Describe Cisco Prime Service Catalog
   - Describe Cisco Server Provisioner
Perform cloud monitoring using Cisco Prime Service Catalog, Cisco UCS Director, Cisco Prime infrastructure
   - Describe fault monitoring
   - Describe performance monitoring
   - Describe monitoring of provisioning outcomes
Create monitoring dashboards
   - Configure custom dashboards
   - Configure threshold settings
	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	

Title: **Cloud Remediation**	time			
	theoretical	practical	total	
	Determined by the instructor			

Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books

Knowledge and Skill:
- Configure serviceability options
   - Configure syslog
   - Configure NTP
   - Configure DNS
   - Configure DHCP
   - Configure SMTP
Interpret Logs for root cause analysis
   - Analyze fault logs
   - Analyze admin logs
   - Analyze application logs
Configure backups
   - Configure database backup
   - Configure database restore
	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				