



Deputy of training Plan and curriculums office

Competency Training standard

Title

NetApp Certified Data Administrator(NCDA) NS0-157

Iran Occupational group INFORMATION TECHNOLOGY (IT)

International code

2523-53-157-1

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Revision Process: - Scientific content - According to market -Equipment Chnical and Cocational - Tools raining Organization

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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:

NetApp Certified Data Administrator(NCDA)

Competency Description:

NetApp Certified Data Administrators have proven skills in performing in-depth support, administrative functions, and performance management for NetApp® data storage controllers running the Data ONTAP® operating system in NFS and Windows® (CIFS) multiprotocol environments. They are able to implement high-availability controller configurations. They also have detailed knowledge of SnapMirror®, SnapRestore®, and SnapVault® technologies, which they use to manage and protect mission-critical data.

Admission Requirements:

minimum degree of education: Post first year of high school

minimum physical and mental ability:-

Prerequisite skills: Comptia Network+ Certification & Microsoft MCSA

Course duration:

Course duration: 52 hours

-Theoretical :12 Hours

-Practical :40 Hours

-Apprenticeship:... Hours

-Project:... Hours

Evaluation :(%)

Exam Time for Native English speakers	90 minutes
Exam Time for Non-native English	120 minutes
speakers	7.7.7
Number of questions	55-65d ocational
Exam Number	NS0-157
Associate Certification	NetApp Certified Data Administrator

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	Architecture
2	Core clustered Data ONTAP
3	High Availability
4	Protocol Administration
5	Networking
6	Storage
7	Performance
8	Security
9	Data Protection

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	time			
Title:	theoretical	practical	total	
Architecture	Determined	by the inst	ructor	
				Equipments
Knowledge ,skill ,attitude ,safety, Environmental Conside	eration			,tools, materials
				,books
Knowledge and Skill:	Determined	by the inst	ructor	From NetApp
- Concepts and components of a NetApp® storage				
architecture				
- Configurations supported by the clustered Data ONTAP®				
OS				
- Supported hardware configurations for clusters and				
controllers/nodes				
Attitude:				
Speed and accuracy in doing the right thing				
T T T T T T T T T T		7		: 7
Health & Safety: Technical a	na i	OC	at	ionai
Compliance with safety protection in the workplace	gani	zat	io	п
Environmental Consideration:				
Compliance with environmental protection				
compliance with environmental protection				

	time			
Title:	theoretical	practical	total	
Core clustered Data ONTAP	Determined instructor	by the		
Knowledge ,skill ,attitude ,safety, Environmental C	Equipments ,tools, materials ,books			
Knowledge and Skill:	Determined	by the		From NetApp
- Clustered Data ONTAP components and features	instructor			
- Concepts, operation, and functionality of Snapshot				
copies				
Storage efficiency features and functionalitiesUse of management tools				
Attitude:				
Speed and accuracy in doing the right thing	2]			
Health & Safety:				
Compliance with safety protection in the workplace	and	l'oc	at	ional
Environmental Consideration:	n			
Environmental Consideration:				I.

T:41.	time			
Title:	theoretical	practical	total	
High Availability	Determined instructor	by the		
Knowledge ,skill ,attitude ,safety, Environmental C				Equipments ,tools, materials ,books
Knowledge and Skill:	Determined	by the		From NetApp
- Configure, monitor, and troubleshoot	instructor	_		
high-availability features				
-Failover functionality and operation				
Attitude:				
Speed and accuracy in doing the right thing	2)			
Health & Safety:				
Compliance with safety protection in the workplace	and	l'oc	at	ional
Environmental Consideration: Compliance with environmental protection	rgan	izat	ioi	7

T:41.	time			
Title:	theoretical	practical	total	
Protocol Administration	Determined instructor	by the		
Knowledge ,skill ,attitude ,safety, Environmental C	onsideration			Equipments ,tools, materials ,books
 Knowledge and Skill: Configure, monitor, and troubleshoot NAS protocols and solutions Configure, monitor, and troubleshoot SAN protocols and solutions 	Determined instructor	by the		From NetApp
Attitude: Speed and accuracy in doing the right thing Health & Safety:				
Compliance with safety protection in the workplace Environmental Consideration:	and gan			
Compliance with environmental protection				

T:4]	time			
Title:	theoretical	practical	total	
Networking	Determined	by the		
	• • •			Equipments
Knowledge ,skill ,attitude ,safety, Environmental C	onsideration			,tools, materials ,books
Knowledge and Skill:	Determined	by the		From NetApp
- Network concepts and components	instructor			
- Configure, monitor, and troubleshoot network				
features and components				
Attitude:				
Speed and accuracy in doing the right thing				
Speed and accuracy in doing the right thing				
Iran Technical a	and	l'oc	ati	ional
Compliance with safety protection in the workplace	gan	izat	ioi	7
Environmental Consideration:				
Compliance with environmental protection				

T:tlos				
Title:	theoretical	practical	total	
Storage	Determined	by the		
	instructor			
				Equipments
Knowledge ,skill ,attitude ,safety, Environmental C	onsideration			,tools, materials
				,books
Knowledge and Skill:	Determined	by the		From NetApp
- Create, configure, and expand aggregates	instructor			
- Create and configure volumes				
- Disks, disk shelves, and RAID groups				
Attitude:				
Speed and accuracy in doing the right thing				
Health & Safety: <i>Lechnical</i>	and	l'oc	ati	ional
Compliance with safety protection in the workplace	.			
Compliance with safety protection in the workplace	'oan	izat	$i \circ i$	1
11000000	Sum		101	E.
Environmental Consideration:				
Compliance with environmental protection				

Title:	time	_
	theoretical practical total	
Performance	Determined by the	
	instructor	
		Equipments
Knowledge ,skill ,attitude ,safety, Environmental	Consideration	,tools, materials
		,books
Knowledge and Skill:	Determined by the	From NetApp
- Administer performance tools and output	instructor	
- Usage and rules for storage tiering		
		-
		-
		-
Attitude:		
Speed and accuracy in doing the right thing		
Health & Safety:		-
Compliance with safety protection in the workpla	ce	
Environmental Consideration:	and L'agat	ional
Environmental Consideration: Compliance with environmental protection	ana) ocal	ionai
Training O	rganizatioi	1
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Titles	time			
Title:	theoretical	practical	total	
Security	Determined	by the		
	instructor			
				Equipments
Knowledge ,skill ,attitude ,safety, Environmental C	onsideration			,tools, materials
				,books
Knowledge and Skill:	Determined	by the		From NetApp
- Security concepts, strategies, and configurations	instructor			
Attitude:	4 / / /			
Speed and accuracy in doing the right thing				
Health & Safety:				
Compliance with safety protection in the workplace	e			_
Iran Technical	and	Foc	ati	ional
Environmental Consideration:				
Compliance with environmental protection	in	17		
Training Of	Sun	izai	101	L.

	time			
Title:	theoretical	practical	total	
Data Protection	Determined	by the		
instructor				
				Equipments
Knowledge ,skill ,attitude ,safety, Environmental C	onsideration			,tools, materials
				,books
Knowledge and Skill:	Determined	by the		From NetApp
- NetApp storage protection concepts, operations,	instructor			
and functionalities				
- Configure, administer, and troubleshoot				
SnapMirror and SnapVault technology				
Attitude:				
Speed and accuracy in doing the right thing				
Health & Safety:				
Compliance with safety protection in the workplace	and	l'oc	ati	ional
Environmental Consideration: Compliance with environmental protection	ioi	1		