استاندارد آموزش شایستگی

CompTIA Security+

گروه شغلی

فناوری اطلاعات

کد ملی آموزش شایستگی

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Isco-۰۸				سطح مهارت	شناسه گروه			شناسه شغل			شناسه شایستگی			نسخه

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تاریخ تدوین استاندارد : ۹۳/۴/۱

Deputy of training
Plan and curriculums office

Competency Training standard

Title

CompTIA Security+

Occupational group

Information Technology(IT)

International code

2511/101

Date of standard compilation :2013/15/12

Control of board on content compilation and accreditation: Plan and curriculums office

National code: **2511/101**

Member of Specialized commission IT Curriculum development:

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Cooperator Specialized organizations for compiling the training standard:

- Iran Information Technology Development Co
- Iran Information Technology Development University
-Aptech Computer Education in Iran

Revision Process:

- Scientific content
- According to market
- Equipment
- Tools

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	Name & family name	Academic document	field	Job & post	Relevant experiences
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6	Amirreza Ghazipour	B.Sc	IT&ICT	Instructor	Iran Information Technology Development Co
7	Amirhossein Rahimi Dadgar	B.Sc	IT&ICT	Instructor	Iran Information Technology Development Co

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.

job/competency title:
CompTIA Security+

Job/competency description:

CompTIA Security+ certification designates knowledgeable professionals in the field of security, one of the fastest-growing fields in IT.

CompTIA Security+ is an international, vendor-neutral certification that demonstrates competency in:

- Network security
- Compliance and operational security
- Threats and vulnerabilities
- Application, data and host security
- Access control and identity management
- Cryptography
- Identify general security concepts.
- Identify and manage internal and external security threats.
- Understand and implement Internet devices and security services
- Secure a network communications infrastructure.
- Manage a Public Key Infrastructure (PKI) and certificate(s).
- Develop, implement and enforce an organizational security policy.
- Monitor and manage an organization's security infrastructure.

CompTIA Security+ not only ensures that candidates will apply knowledge of security concepts, tools, and procedures to react to security incidents, it ensures that security personnel are anticipating security risks and guarding against them.

Candidate job roles include security architect, security engineer, security consultant/specialist, information assurance technician, security administrator, systems administrator, and network administrator.

admission requirements:

minimum degree of education: Post first year of high school

minimum physical and mental ability:-

prerequisite skills: CompTIA Network+ certification and two years of technical networking experience, with an emphasis on security.

Course duration:

Course duration : 30 hours

Evaluation :(%)

Test Details	
Number of questions	Maximum of 100 questions
Type of questions	Multiple choice and performance-based
Length of test	90 minutes
Passing score	720 (on a scale of 100-900)
Recommended experience	CompTIA A+ certification and nine months networking experience
Languages	English, Japanese, German, Simplified Chinese, Korean, Spanish, Traditional Chinese
Exam codes	N10-005 JK0-019 *(for CompTIA Academy Partners only)*

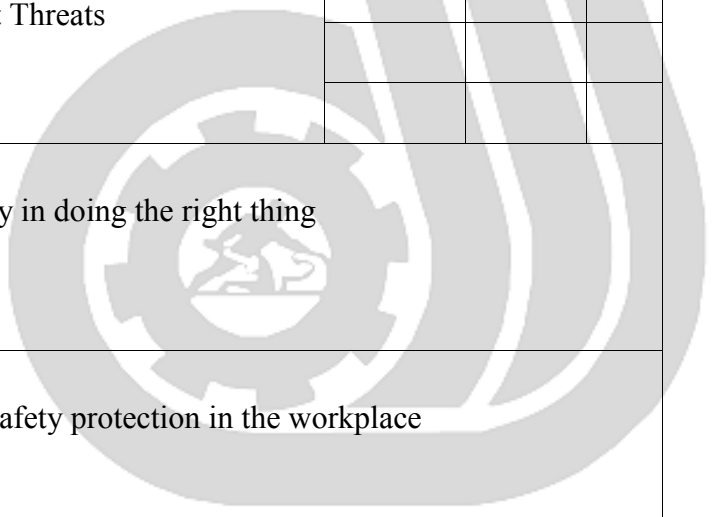| Required Qualifications for Trainers: |
|---|
| **CompTIA Security+** degree holders with 2 years experience |

competency training standard

tasks

Row	Title
1	**General Networking and Security Concepts**
2	**Organizational and Operational Security**
3	Certificate Basics
4	Network Infrastructure Security
5	Communications Security
6	Application Security
7	User Security
8	Security Baselines
9	Operational Security
10	Organizational Security
11	Incident Detection and Response

Iran Technical and Vocational
Training Organization

Training standard

Contents analysis form

<table>
<tr><td rowspan="2">Title:
General Networking and Security Concepts</td><td colspan="3" align="center">time</td><td rowspan="3"></td></tr>
<tr><td>theoretical</td><td>practical</td><td>total</td></tr>
<tr><td colspan="3">Determined by the instructor</td></tr>
<tr><td colspan="4">Knowledge ,skill ,attitude ,safety, Environmental Consideration</td><td>Equipments ,tools, materials ,books</td></tr>
<tr><td>Knowledge and Skill:
The Big Picture
Identify Threats
Intrusion points
Defending Against Threats</td><td colspan="3" align="center">Determined by the instructor</td><td>From CompTIA</td></tr>
<tr><td>Attitude:
Speed and accuracy in doing the right thing</td><td colspan="3"></td><td></td></tr>
<tr><td>Health & Safety:
Compliance with safety protection in the workplace</td><td colspan="3"></td><td></td></tr>
<tr><td>Environmental Consideration:
Compliance with environmental protection</td><td colspan="3"></td><td></td></tr>
</table>

Title: Organizational and Operational Security	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: TCP/IP Basics Basic TCP/IP Principles TCP/IP Layers and Vulnerabiliti	Determined by the instructor			From **CompTIA**
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: Certificate Basics	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: Understanding Cryptography Using Cryptography Identifying the Components a PublicKey Infrastructure Understanding CA Trust Models Understanding Certified Life Cycle andKey Management Certificate Workshop	Determined by the instructor			From **CompTIA**
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: Network Infrastructure Security	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: Understanding Network InfrastructureSecurity Securing Network Cabling Securing Connectivity devices Exploring Secure Topologies Securing and Monitoring NetworkResources IPSec Workshop	Determined by the instructor			From **CompTIA**
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: Communications Security	time			
	theoretical	practical	total	
	Determined by the instructor			

Knowledge ,skill ,attitude ,safety, Environmental Consideration		Equipments ,tools, materials ,books
Knowledge and Skill: Understanding Remote Access Connectivity Providing Secure Remote Access Understanding Wireless Standards and Protocols VPN Workshop	Determined by the instructor	From **CompTIA**
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: Application Security	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: E-Mail Security Web Security File Transfer SSL Workshop	Determined by the instructor			From **CompTIA**
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: User Security	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: Understanding Authentication Understanding Access Control Models	Determined by the instructor			From **CompTIA**
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: Security Baselines	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: Network Device and Operating System Hardening Server Application Hardening IAS Workshop	Determined by the instructor			From **CompTIA**
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: Operational Security	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: Physical Security Privilege Management Removable Media Protecting Business Continuity	Determined by the instructor			From **CompTIA**
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: Organizational Security	time			
	theoretical	practical	total	
	Determined by the instructor			

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

Knowledge and Skill: Documentation Risk Assessment Security Education	Determined by the instructor		From **CompTIA**

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: Incident Detection and Response	time			
	theoretical	practical	total	
	Determined by the instructor			

Knowledge ,skill ,attitude ,safety, Environmental Consideration		Equipments ,tools, materials ,books
Knowledge and Skill: Attacks and Malicious Code Intrusion Detection Systems Incident Response IIS Workshop	Determined by the instructor	From **CompTIA**
Attitude: Speed and accuracy in doing the right thing		
Health & Safety: Compliance with safety protection in the workplace		
Environmental Consideration: Compliance with environmental protection		

Equipment & Tools & Materials & Resources (books, site, software…**)**form

 *Required quantity for each 15 Trainees

 From CompTIA