



Ministry of cooperatives
Labour and Social Welfare



Iran Technical and Vocational
Training Organization

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:

- Shahram Shokofian: Manager of Iran TVTO IT Curriculum Development
- Elham Tajfar: Member of Iran TVTO IT Curriculum Development
- Hassan Solimany: Member of Iran TVTO IT Curriculum Development
- Sarang Ghorbanian: Member of Iran TVTO IT Curriculum Development
- Dariush Esmaeili: Member of Iran TVTO IT Curriculum Development

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

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
1	Sarang Ghorbanian	M.Sc.	IT&ICT	Manager	University of Applied Science and Technology
2	Hassan Solimany	B.Sc	IT&ICT	Manager	Iran Information Technology Development Co
3	Dariush Esmacili	M.Sc.	IT&ICT	Manager	University of Applied Science and Technology
4	Mojtaba Kateb	M.Sc.	IT&ICT	Manager	Iran Information Technology Development Co
5	Yaghoob Poorasad	Ph.D.	IT&ICT	Manager	University of Applied Science and Technology
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 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.

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

Title: General Networking and Security Concepts	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: The Big Picture Identify Threats Intrusion points Defending Against Threats	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				

Iran Technical and Vocational Training Organization

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				

Iran Technical and Vocational Training Organization

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:	Determined by the instructor			From CompTIA
Understanding Network Infrastructure Security				
Securing Network Cabling				
Securing Connectivity devices				
Exploring Secure Topologies				
Securing and Monitoring Network Resources				
IPSec Workshop				
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:	Determined by the instructor			From CompTIA
Understanding Remote Access				
Connectivity				
Providing Secure Remote Access				
Understanding Wireless Standards and Protocols				
VPN Workshop				
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*

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				

*Iran Technical and Vocational
Training Organization*

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				

*Iran Technical and Vocational
Training Organization*

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				

*Iran Technical and Vocational
Training Organization*

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				

*Iran Technical and Vocational
Training Organization*

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				

*Iran Technical and Vocational
Training Organization*

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