

معاونت پژوهش، برنامه‌ریزی و سنجش مهارت

دفتر پژوهش، طرح و برنامه‌ریزی درسی

## استاندارد آموزش شایستگی

# Configuring Advanced Windows Server ۲۰۱۲ Services

## گروه شغلی

## فناوری اطلاعات

کد ملی آموزش شایستگی

۲	۵	۱	۲	۴	۰	۵	۳	۱	۸	۷	۰	۰	۲	۱
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Ministry of cooperatives  
Labour and Social Welfare



Iran Technical and Vocational  
Training Organization

Deputy of training  
Plan and curriculums office

# Competency Training standard

## Title

**Configuring Advanced Windows Server 2012 Services**

## Occupational group

**Information Technology (IT)**

*Iran Technical and Vocational  
Training Organization*

International code

**2513-53-109-1**

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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 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.

**Competency Title:****Configuring Advanced Windows Server 2012 Services****Competency Description:**

Get hands-on instruction and practice configuring advanced Windows Server 2012, including Windows Server 2012 R2, services in this five-day Microsoft Official Course. This course is part three in a series of three courses that provides the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment.

The three courses collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. Although there is some cross-over of skills and tasks across these courses, this course focuses on advanced configuration of services necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as advanced networking services, Active Directory Domain Services (AD DS), Active Directory Rights Management Services (AD RMS), Active Directory Federation Services (AD FS), Network Load Balancing, Failover Clustering, business continuity and disaster recovery services as well as access and information provisioning and protection technologies such as Dynamic Access Control (DAC), and Web Application Proxy integration with AD FS and Workplace Join. This course maps directly to and is the preferred choice for hands-on preparation for Microsoft Certified Solutions Associate (MCSA): Exam [412: Configuring Advanced Windows Server 2012 Services](#), which is the third of three exams required for MCSA: Windows Server 2012 credential.

**Admission Requirements:**

minimum degree of education: Post first year of high school

minimum physical and mental ability:-

Prerequisite skills: Installing and Configuring Windows Server 2012

**Course Duration:**

*Course duration: 40 hrs*

*-Theoretical :10 Hours*

*-Practical :30 Hours*

*-Apprenticeship: ... Hours*

*-Project: ... Hours*

**Evaluation :(%)**

Exam 70-412



Published: September 17, 2012

Languages: English, Chinese (Simplified),  
French, German, Japanese, Portuguese  
(Brazil)

Audiences: IT professionals

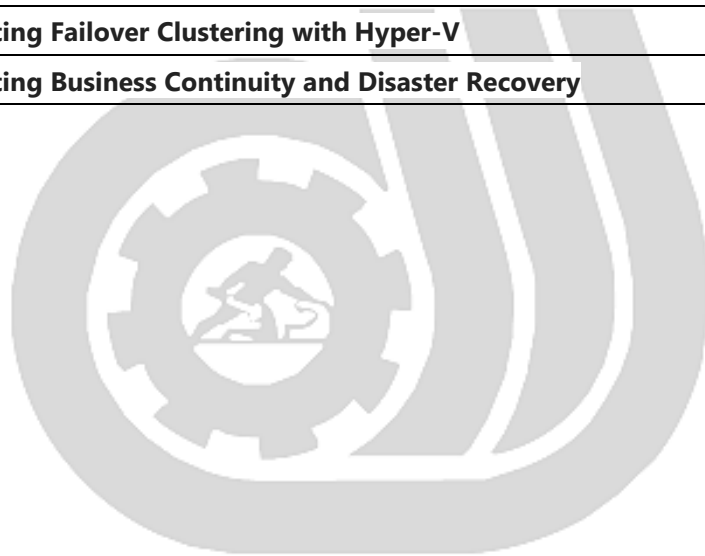
Technology: Windows Server 2012 R2

Credit toward certification: MCP, MCSA,  
MCSE

**Required Qualifications for Trainers:**

MCSE degree holders with 2 years experiences

<b>Competency Training Standard Tasks</b>	
1	<b>Implementing Advanced Network Services</b>
2	<b>Implementing Advanced File Services</b>
3	<b>Implementing Dynamic Access Control</b>
4	<b>Implementing Distributed Active Directory Domain Services Deployments</b>
5	<b>Implementing Active Directory Domain Services Sites and Replication</b>
6	<b>Implementing AD CS</b>
7	<b>Implementing Active Directory Rights Management Services</b>
8	<b>Implementing and Administering AD FS</b>
9	<b>Implementing Network Load Balancing</b>
10	<b>Implementing Failover Clustering</b>
11	<b>Implementing Failover Clustering with Hyper-V</b>
12	<b>Implementing Business Continuity and Disaster Recovery</b>



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Training standard  
Contents analysis form

<b>Title:</b> <b>Implementing Advanced Network Services</b>	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
<b>Knowledge and Skill:</b> <ul style="list-style-type: none"> <li>- Configuring Advanced DHCP Features</li> <li>- Configuring Advanced DNS Settings</li> <li>- Implementing IPAM</li> <li>- Managing IP Address Spaces with IPAM</li> </ul>	Determined by the instructor			<b>From Microsoft</b>
<b>Attitude:</b> Speed and accuracy in doing the right thing				
<b>Health &amp; Safety:</b> Compliance with safety protection in the workplace				
<b>Environmental Consideration:</b> Compliance with environmental protection				

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Training standard  
Contents analysis form

<b>Title:</b> <b>Implementing Advanced File Services</b>	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
<b>Knowledge and Skill:</b> - Configuring iSCSI Storage - Configuring BranchCache - Optimizing Storage Usage	Determined by the instructor			<b>From Microsoft</b>
<b>Attitude:</b> Speed and accuracy in doing the right thing				
<b>Health &amp; Safety:</b> Compliance with safety protection in the workplace				
<b>Environmental Consideration:</b> Compliance with environmental protection				

Training standard

Contents analysis form

<b>Title:</b> <b>Implementing Dynamic Access Control</b>	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
<b>Knowledge and Skill:</b> - Overview of DAC - Implementing DAC Components - Implementing DAC for Access Control - Implementing Access Denied Assistance - Implementing and Managing Work Folders	Determined by the instructor			From <b>Microsoft</b>
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				

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Training standard  
Contents analysis form

<b>Title:</b> <b>Implementing Distributed Active Directory Domain Services Deployments</b>	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
<b>Knowledge and Skill:</b> - Overview of Distributed AD DS Deployments - Deploying a Distributed AD DS Environment - Configuring AD DS Trusts	Determined by the instructor			<b>From Microsoft</b>
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				

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Training standard  
Contents analysis form

<b>Title:</b> <b>Implementing Active Directory Domain Services Sites and Replication</b>	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipment's ,tools, materials ,books
<b>Knowledge and Skill:</b> - AD DS Replication Overview - Configuring AD DS Sites - Configuring and Monitoring AD DS Replication	Determined by the instructor			<b>From Microsoft</b>
<b>Attitude:</b> Speed and accuracy in doing the right thing				
<b>Health &amp; Safety:</b> Compliance with safety protection in the workplace				
<b>Environmental Consideration:</b> Compliance with environmental protection				

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Training standard  
Contents analysis form

<b>Title:</b> <b>Implementing AD CS</b>	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipment's ,tools, materials ,books
<b>Knowledge and Skill:</b> - Using Certificates in a Business Environment - PKI Overview - Deploying CAs - Deploying and Managing Certificate Templates - Implementing Certificate Distribution and Revocation - Managing Certificate Recovery	Determined by the instructor			<b>From Microsoft</b>
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				

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Training standard  
Contents analysis form

<b>Title:</b> <b>Implementing Active Directory Rights Management Services</b>	time			
	theoretical	practical	total	
	Determined by the instructor			
<b>Knowledge ,skill ,attitude ,safety, Environmental Consideration</b>				Equipment's ,tools, materials ,books
<b>Knowledge and Skill:</b> - AD RMS Overview - Deploying and Managing an AD RMS Infrastructure - Configuring AD RMS Content Protection - Configuring External Access to AD RMS	Determined by the instructor			<b>From Microsoft</b>
<b>Attitude:</b> Speed and accuracy in doing the right thing				
<b>Health &amp; Safety:</b> Compliance with safety protection in the workplace				
<b>Environmental Consideration:</b> Compliance with environmental protection				

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Training standard  
Contents analysis form

<b>Title:</b> <b>Implementing and Administering AD FS</b>	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipment's ,tools, materials ,books
<b>Knowledge and Skill:</b> - Overview of AD FS - Deploying AD FS - Implementing AD FS for a Single Organization - Deploying AD FS in a Business-to-Business Federation Scenario - Extending AD FS to External Clients	Determined by the instructor			<b>From Microsoft</b>
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				

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Training standard  
Contents analysis form

<b>Title:</b> <b>Implementing Network Load Balancing</b>	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipment's ,tools, materials ,books
<b>Knowledge and Skill:</b> - Overview of NLB - Configuring an NLB Cluster - Planning an NLB Implementation	Determined by the instructor			<b>From Microsoft</b>
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				

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Training standard  
Contents analysis form

<b>Title:</b> <b>Implementing Failover Clustering</b>	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipment's ,tools, materials ,books
<b>Knowledge and Skill:</b> - Overview of Failover Clustering - Implementing a Failover Cluster - Configuring Highly Available Applications and Services on a Failover Cluster - Maintaining a Failover Cluster - Implementing a Multi-Site Failover Cluster	Determined by the instructor			<b>From Microsoft</b>
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				

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Training standard

Contents analysis form

<b>Title:</b> <b>Implementing Failover Clustering with Hyper-V</b>	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipment's ,tools, materials ,books
<b>Knowledge and Skill:</b> - Overview of Integrating Hyper-V with Failover Clustering - Implementing Hyper-V Virtual Machines on Failover Clusters - Implementing Hyper-V Virtual Machine Movement	Determined by the instructor			<b>From Microsoft</b>
<b>Attitude:</b> Speed and accuracy in doing the right thing				
<b>Health &amp; Safety:</b> Compliance with safety protection in the workplace				
<b>Environmental Consideration:</b> Compliance with environmental protection				

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Training standard  
Contents analysis form

<b>Title:</b> <b>Implementing Business Continuity and Disaster Recovery</b>	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipment's ,tools, materials ,books
<b>Knowledge and Skill:</b> - Data Protection Overview - Implementing Windows Server Backup - Implementing Server and Data Recovery	Determined by the instructor			<b>From Microsoft</b>
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 Microsoft**