

<p>نام دوره : متخصص ارشد طراحی شبکه های VOIP بین الملل</p> <p>CISCO: CCNA Voice Microsoft: Lync , Exchange</p>			
<p>مشخصات دوره</p>	<p>تعداد ساعت : ۸۰</p>	<p>پیش نیاز : آشنایی با مفاهیم پایه ای شبکه های مایکروسافت و مسیریاب های سیسکو</p>	<p>تعداد ترم : ۳</p>
<p>مخاطبین دوره</p> <p>مدیران فناوری و متخصصین در تکنولوژی صوتی</p>			
<p>شرح دوره</p> <p>فردی که در این دوره آموزش میبندد پس از پایان دوره با معتبرترین و کاربردی ترین سرور های مدیریت تماس های مبتنی بر VOIP از قبیل Lync و Exchange از شرکت مایکروسافت ؛ CUCME و CUCM از شرکت سیسکو و سرورهای Elastix و Asterisk که بر پایه لینوکس پایه گذاری شده اند آشنا می شود.</p> <p>نکته مهم در این دوره آشنایی با چگونگی برقراری ارتباط و یکپارچه سازی این سرویس ها در بستر شبکه و برقراری ارتباط بین این سرویس ها و شبکه های تلفن آنالوگ مخابراتی می باشد.</p>			
<p>آنچه در این دوره می آموزیم:</p> <p>آشنایی با Voice در بستر آنالوگ</p> <p>آشنایی با مفاهیم تبدیل Analog Voice به Digital Voice</p> <p>آشنایی با Call Manager های شرکت سیسکو</p> <p>نصب و پیاده سازی سرویس Cisco Unified Communications Manager Express (CUCME)</p> <p>آشنایی با CME Dial-Plan ها</p> <p>پیاده سازی امکانات Voice در CUCME از قبیل :</p> <p>Call forwarding, transfer call, Call Park , call pickup, intercom, music on hold, paging</p> <p>نصب و پیاده سازی سرویس (Cisco Unified Communications Manager) CUCM</p> <p>پیکربندی تماس ها در ساختار CUCM؛ آشنایی با Dial- Plan ها در CUCM</p> <p>پیاده سازی امکانات Voice در CUCM ؛ برقراری ارتباط تماس بین CUCM و CME</p> <p>آشنایی با Voice Mail</p> <p>آشنایی با خطوط و تکنولوژی Digital Voice</p> <p>آشنایی با VOIP و پروتکل های رایج آن</p> <p>نصب و پیاده سازی Asterisk و Elastix و سرویس های مرتبط با آنها</p> <p>یکپارچه سازی سرویس های مختلف VOIP به صورت همزمان</p>			
<p>CISCO CCNA Voice 640-461 Microsoft Exchange Server 2010 Microsoft Lync Server 2010</p>			<p>ترم های دوره</p>

CISCO CCNA Voice 640-461

Describe the characteristics of a Cisco Unified Communications solution

Describe the Cisco Unified Communications components and their functions

Describe call signalling and media flows

Describe quality implications of a VoIP network

Provision end users and associated devices

Describe user creation options for Cisco Unified Communications Manager and Cisco Unified Communications Manager Express

Create or modify user accounts for Cisco Unified Communications Manager

Create or modify user accounts for Cisco Unified Communications Manager Express using the GUI

Create or modify endpoints for Cisco Unified Communications Manager

Create or modify endpoints for Cisco Unified Communications Manager Express using the GUI

Describe how calling privileges function and how calling privileges impact system features

Create or modify directory numbers

Enable user features and related calling privileges for extension mobility, call coverage, intercom, native presence, and unified mobility remote destination configuration

Enable end users for Cisco Unified Presence

Verify user features are operational

Configure voice messaging and presence

Describe user creation options for voice messaging

Create or modify user accounts for Cisco Unity Connection

Describe Cisco Unified Presence

Configure Cisco Unified Presence

Maintain Cisco Unified Communications system

Generate CDR and CMR reports

Generate capacity reports

Generate usage reports

Generate RTMT reports to monitor system activities

Monitor voicemail usage

Remove unassigned directory numbers

Perform manual system backup

Provide end user support

Verify PSTN connectivity

Define fault domains using information gathered from end user

Troubleshoot endpoint issues

Identify voicemail issues and resolve issues related to user mailboxes

Describe causes and symptoms of call quality issues

Reset single devices

Describe how to use phone applications

Exam 70-662:

TS: Microsoft Exchange Server 2010, Configuring

Installing and Configuring Exchange Servers (15 percent)

- Install Exchange prerequisites.
- Install Exchange roles.
- Create and configure databases.
- Create and configure address lists.

Configuring Exchange Recipients and Public Folders (14 percent)

- Create and configure mailboxes.
- Configure RBAC.
- Create and configure resource mailboxes and shared mailboxes.
- Create and configure recipients and distribution groups.
- Create and configure public folders.

Configuring Client Access (15 percent)

- Configure POP, IMAP, and Microsoft ActiveSync.
- Configure Outlook Anywhere and RPC Client Access.
- Configure federated sharing.
- Configure Outlook Web App (OWA).

Configuring Message Transport (15 percent)

- Create and configure transport rules.
- Configure hub transport.
- Configure Edge transport.
- Configure message routing.

Monitoring and Reporting (13 percent)

- Monitor databases.
- Monitor mail flow.
- Monitor connectivity.
- Generate reports.
- Configure logging.

Implementing High Availability and Recovery (15 percent)

- Create and configure the Database Availability Group (DAG).
- Perform backup and restore of data.

- Configure public folders for high availability.
- Configure high availability for non-mailbox servers.
- Back up and recover server roles.

Configuring Message Compliance and Security (13 percent)

- Configure records management.
- Configure compliance.
- Configure message integrity.
- Configure anti-virus and anti-spam.

Exam 70-664:

TS: Microsoft Lync Server 2010, Configuring

Managing Users and Client Access (20 percent)

- Configure user accounts.
- Deploy and maintain clients.
- Configure conferencing policies.
- Configure Instant Messaging (IM) policies.
- Deploy and maintain Lync Server 2010 devices.
- Resolve client access issues.

Configuring a Lync Server 2010 Topology (21 percent)

- Prepare to deploy a topology.
- Configure Lync Server 2010 by using Topology Builder.
- Configure role-based access control in Lync Server 2010.
- Configure a location information server.
- Configure server pools for load balancing.

Configuring Lync Server 2010 for External Access (19 percent)

- Configure Edge Services.
- Configure a firewall.
- Configure a reverse proxy.

Configuring Enterprise Voice (19 percent)

- Configure voice policies.
- Configure dial plans.
- Manage routing.
- Configure Microsoft Exchange Unified Messaging integration.
- Configure dial-in conferencing.
- Configure call admission control.
- Configure Response Group Services (RGS).
- Configure Call Park and Unassigned Number.
- Manage a Mediation Server pool and PSTN Gateway.

Monitoring and Maintaining Lync Server 2010 (21 percent)

- Back up and restore Lync Server 2010.
- Configure monitoring and archiving.
- Implement troubleshooting tools.
- Use PowerShell to test Lync Server 2010.