

Curriculum Approval and Review

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CVNP2216 - Voice over Internet Protocol (VoIP) and IP Telephony

Revision summary

Authors

Janet Szczech-Johnson

Requested start date

01/09/2013

Status

Approved on November 14th, 2012 at 11:19 AM

Course summary

Type

Career

Discipline

Computer Careers

Delivery methods

Repeatable for additional credit?

No

Status

Active

Start date

Campus, eCampus, Blended
Credits
3 (2/1/0)

11/14/2012
End date
N/A

Rationale

This course is a modification to the CVNP2212 course reducing the credit load from 4 credits down to 3 credits and updating the course outcomes for on-line delivery.

Description

This courses covers the theory, installation, configuration and monitoring of traditional voice communications systems and voice communications systems designed to operate over an IP (Internet Protocol) network. Today's data communications networks use IP for address assignment, traffic identification, quality of service and other features required to transport multiple signals over one data connection. Topics covered in this course include components of business communications systems, voicemail systems, call features, IP telephony call control protocols, codec algorithms and quality of service techniques.

Pre-requisites

[CPTR1118](#)

Co-requisites

(None)

Competencies

- Analyze different voice and business communication systems.
- Describe features and options associated with a voice communications.
- Review the process to configure a voice system.
- Identify components used in a converged voice over IP system.
- Analyze protocols used in a voice over IP and IP telephony call set-up.
- Research security techniques used in a voice over IP and IP telephony.
- Analyze quality of service options for voice over IP.
- Research different traffic monitoring systems supporting voice over IP.
- Configure an Ethernet switch to support voice over IP security and quality of service.
- Troubleshoot converged IP telephony and voice over IP systems.
- Demonstrate effective and efficient communications to acheive desired results.

Revisions

Date	Status	Title
11/14/2012	Approved	Voice over Internet Protocol (VoIP) and IP Telephony

Affected programs

Credential	Title
AAS	Network Administration and Security

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