High-Touch Delivery Learning Services

Activating and Operating Digital Subscriber Networks (DSN)

The Activating and Operating DSN instructor-led course teaches you how to use the digital network control system (DNCS) to maintain the Cisco® digital broadband delivery system (DBDS). Making sure your digital broadband system delivers the services demanded by subscribers is a critical function. In this course, you will learn how to configure network elements, set up digital services, and maintain the DBDS. This course uses practical lab exercises to enhance and reinforce lecture-based instruction on operating the DNCS.

Duration

Five days.

Target Audience

This course is designed for technical professionals who need to know how to operate and maintain a Cisco DNCS in their network environment. The primary audience for this course includes:

- System engineers
- Technical support personnel
- Channel partners, resellers

Course Objectives

Upon completion of this course, you should be able to:

- Set up and manage a DBDS using the DNCS
- Use the DNCS to add and configure additional components to an existing DBDS
- Add and configure services for an existing DBDS
- Review tools on the DNCS that are useful in monitoring and maintaining a DBDS

Course Prerequisites

Following are the prerequisites for this course:

- Students must be proficient in using a personal computer keyboard and mouse in a Windows-based operating environment and must be familiar with basic Solaris commands. A general knowledge of HFC network structure is helpful.
- Recommended: Network Technology Bootcamp, Introduction to UNIX

To locate Cisco courses that cover the listed prerequisites, go to the Cisco Training and Events webpage at www.cisco.com/go/ase.

Course Outline

The course outline is as follows:

- Introduction to the Digital Broadband Delivery System: Explains how a DBDS operates, focusing on network architecture and communication paths, and introduces students to the primary tools they will use to manage a DBDS.
    - Overview of Devices Used to Operate a DBDS
    - Overview of a DBDS
    - Overview of Data Paths Used by a DBDS
    - Overview of DBDS Devices
- Provisioning DBDS Elements: Uses demonstrations and hands-on group exercises to enable students to add and configure DBDS elements using the DNCS.
    - Overview of Provisioning DBDS Elements
    - Provisioning Logical Elements
    - Provisioning Physical Elements
    - Preparing Set-Tops for Use by Subscribers
- Provisioning Services of a DBDS: Uses demonstrations and hands-on exercise to enable each student to use the DNCS to add the services that a DBDS provides, explaining how actions performed on the DNCS are carried out by DBDS elements.
    - Provisioning Clear Broadcasts
    - Provisioning Secure Broadcasts
    - Examining the Emergency Alert System
    - Provisioning the Interactive Program Guide
    - Interactive Services
- Maintaining a DBDS: Examines the tools that the DNCS provides for use in monitoring and maintaining a DBDS.
    - Utilities
    - Routine Preventive Maintenance

Lab Outline

The lab outline is as follows:

- Lab 1: Communication Path Worksheet
- Lab 2: Locating Information in Help
- Lab 3: Lab Tour and Equipment
- Lab 4: Provisioning Logical Elements
- Lab 5: Communication Path Elements
- Lab 6: Provision a Service
- Lab 7: Securing a Service
- Lab 8 (GROUP): Provision a New Set-Top
- Lab 9: Set-Top Utilities
- Lab 10: The Broadcast File System (BFS)
- Lab 11: PPV
- Lab 12: DBDS Preventative Maintenance
- Lab 13: DNCS Backup

Registration Information

For more information about schedules and registration for this course, contact aeskt_registration@cisco.com.

For More Information

For more information on High Touch Delivery Learning Services for Cisco classic products and technologies, refer to www.cisco.com/go/ase.

For information on Cisco TelePresence® training, refer to www.telepresenceu.com/.

For information on broadband video training for service providers, refer to www.cisco.com/go/spvtraining.

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