

## E5-110/111 Hands-On Fundamentals *(1/2 day)*

Learn the essential skills and procedures you need to deploy services using the Calix E5-110/111 Ethernet xDSL access multiplexer. In this class you will learn how to provision voice, video, and data services for DSL subscribers.

### Who should attend

- Technicians who manage, maintain, troubleshoot, and configure the E5-110/111
- Technicians who configure DSL subscriber services
- Engineers and planners who want an overview of E5-110/111 services

### Prerequisites

- Completion of E5-110/111 Overview online course
- Knowledge of telecommunications and engineering standards
- Understanding of Ethernet networks including Layer 2 switching and VLANs
- Understanding of DSL technologies

### Learning aids

During the class you will follow along with the lectures and demonstrations using a printed reference guide. After class you can use the reference guide to review class content and view procedures.

### Topics

#### System Configuration

- Logging into the E5-110/111
- Command line interface
- Graphical user interface
- System turn-up
- Switch modes

**Register online at:**

[http://portal.calix.com/portal/courses/classroom\\_training.jsp](http://portal.calix.com/portal/courses/classroom_training.jsp)

### Configure Data-Only Service

- Create a data VLAN
- Create an xDSL port profile
- Apply an xDSL profile
- Apply VC parameters to xDSL ports
- Test data service

### Configure Video and Data Service

- Enable IGMP snooping
- Specify IGMP channel bandwidth parameters
- Specify IGMP port bandwidth parameters
- Create an xDSL profile for each data and video service offering
- Modify switch setup parameters
- Create video and data VLANs
- Create VC profiles for video and data service offerings
- Apply xDSL profiles to xDSL ports
- Add VC parameters and apply them to xDSL ports
- Test video and data service

### Configure SIP and CTG Voice Services

- Set the VoIP Mode
- Set the VoIP IP address and VLAN
- Build the SIP profiles
- Build call service profiles
- Provision VoIP ports
- CTG VoIP port setup
- Verify VoIP service

### Maintenance and Administration

- Configuration save
- Configuration backup and restore
- Security features
- CMS features and scheduled backups

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