

Course Description

This course provides an overview of the E7 Ethernet transport network. It includes details on how to configure Ethernet Ring Protection Switching (ERPS), a G.8032 Ethernet ring, a Link Aggregation Group (LAG), Rapid Spanning Tree Protocol (RSTP) ring, and node protection for the E7 platform.

Objectives

- Describe the concepts of Ethernet transport
- Configure ERPS in an E7 network
- Identify E7 protection and redundancy schemes
- Deploy node protection
- Configure RSTP and LAG in an E7 network

Prerequisite Training and Skills

- Knowledge of telecommunications and standards
- Understanding of Ethernet networks including layer 2 switching and VLANs

Who should attend?

- Technicians who install, manage and maintain the Calix E7 platform

Course and Exam Duration: 1 Hour

Lessons		Topics
01	Ethernet Transport Basics	<ul style="list-style-type: none"> • Services • Ethernet Interfaces vs. Ethernet Ports • Interface Roles • Configuring E7 Services • Roles on the E7-2 and E7-20 • Service VLANsSteps to Configuring VLANs • VLAN Configuration Example • VLAN Membership
02	ERPS Overview	<ul style="list-style-type: none"> • Ethernet Aggregation Example • Ethernet Aggregation Configuration Demonstration Video
03	Node Protection	<ul style="list-style-type: none"> • Tag Actions Example • Creating Tag Actions • Tag Action Types • Configure Tag Actions Demonstration Video

04	Rapid Spanning Tree Protocol	<ul style="list-style-type: none">• Rapid Spanning Tree Protocol Overview• Configuring RSTP Transport
05	G.8032 Idle State	<ul style="list-style-type: none">• G.8032 Idle State• G.8032 Ring States• G.8032 Protection State• G.8032 Recovery Phase
06	Link Aggregation	<ul style="list-style-type: none">• Link Aggregation• Link Aggregation Provisioning Simulation