

Cisco ASR 901 Essentials (A901E)

Duration 3 Days

COURSE CONTENT

This instructor-led course introduces you to the features and functions of the Cisco® ASR 901 Series platform. Through a combination of lecture and hands-on labs, you will gain an understanding of the major aspects of the platform, including hardware, software, Layer 2 services, and management features. This training is based on Cisco IOS® Software Release 15.2(2)SNG for the Cisco ASR 901.

COURSE OBJECTIVES

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

- List and describe features, benefits, and functions of Cisco ASR 901 Series routers
- Describe each of the hardware components and perform hardware maintenance on the Cisco ASR 901
- List and describe the architecture, features, and functions of the hardware elements of the fixed-configuration Cisco ASR 901 router
- Explain the Cisco ASR 901 operating system and functionality
- Install software on a Cisco ASR 901 Series router
- Configure Ethernet interfaces on the Cisco ASR 901 router using the Cisco Ethernet Virtual Circuit command line interface
- Configure T1/E1 controllers and serial and MLPPP interfaces on the Cisco ASR 901 router

WHO SHOULD ATTEND

This course is for technical professionals who need to know how to implement Cisco ASR 901 Series routers in their 3G or 4G mobile backhaul network environment.

The following are considered the primary audience for this course:

- Technical support personnel
- System engineers

PRE-REQUISITES

Following are the prerequisites for this course:

- Attend the Interconnecting Cisco Network Devices (ICND) course or equivalent experience
- Knowledge of Cisco IOS Software commands
- Knowledge of Layer 2 IEEE switching and related protocols

COURSE OUTLINE

- **Module 1:** Using the Cisco ASR 901 for IP Radio Access Network Backhaul
- **Module 2:** Hardware Overview and Maintenance of the ASR 901
- **Module 3:** Software Overview and Configuration
- **Module 4:** Configuring Ethernet Interfaces on the Cisco ASR 901
- **Module 5:** Configuring TDM Interfaces on the Cisco ASR 901

Lab

- **Lab 1:** Performing Hardware Discovery and Initial Cisco ASR 901 Configuration
- **Lab 2:** Installing Cisco ASR 901 Licenses and Performing Software Upgrades
- **Lab 3:** Configuring Ethernet Interfaces Using the Ethernet Virtual Circuit Command Line Interface
- **Lab 4:** Configuring T1/E1 Controllers, Network Clocking, Serial Interfaces, and Multilink PPP
- **Lab 5:** Configuring TDM Local Switching, Performing Loopback and Bit Error Rate Testing