Training | CAP/NSP

Certified Allied Telesis Professional / Service Provider

Duration
Five days.

Delivery Format
Classroom-based, instructor-led.

Certification
Attendees will be required to pass a web-based or written exam upon completion of the course. The title of Certified Allied Telesis Professional will be awarded to candidates achieving the pass score.

Intended Audience
Engineers who wish to install and maintain AlliedTelesis service provider products using approved design and configuration.

Prerequisites
Prior certification at Certified Allied Telesis Technician level or a strong understanding of foundation networking concepts.

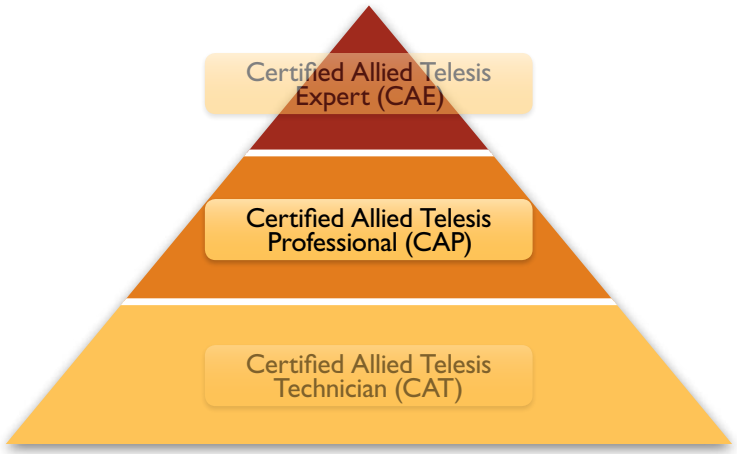
Scheduling
To learn more or schedule a class, visit our website at alliedtelesis.com/training or contact us via email:

NORTH AMERICA
» na_training@alliedtelesis.com

EUROPE
» training.eu@alliedtelesis.com

Introduction
This course is designed to teach attendees how to install and perform basic configuration, maintenance, and troubleshooting on Allied Telesis service provider products, including the Integrated Multi-service Access Platform (iMAP), the SwitchBlade x3100 family AlliedView NMS, and intelligent media gateways (iMG/iBGs). In addition to theory behind the solutions, this course allows participants the opportunity to practice configuration tasks in a lab environment.

Objectives
After completing the course, the attendees will be able to:



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- Properly install service provider products in central office and remote field cabinet environments.
- Understand the methods to gain access to the iMAP and x3100 switches, how to interoperate with the CLI, and perform basic management operations.
- Input basic provisioning commands needed to field commission service provider switches.
- Perform basic troubleshooting and fault diagnosis.
- Understand the basic principles of NMS and how it relates to the service provider environment.
- Use AlliedView NMS to auto-discover network devices.
- Use AlliedView NMS to view network data such as events, logs, performance, and statistical information.
- Configure AlliedView NMS to provide basic provisioning to gateways, modules, and ports.
- Use AlliedView NMS to upgrade and back up device configurations and firmware releases, both manually and automated.
- Understand how to configure and troubleshoot Allied Telesis iMG products.

Key Products
iMAP family, x3100 family, AlliedView NMS, iMG/iBG family.

iMAP Section Outline

Hardware Overview
Introduction to the iMAP and x3100 product lines and overview of its architecture and features.

Installation
Installation requirements, considerations, and configuration examples of Allied Telesis service provider products.

Command Line Interface (CLI)
Overview of the CLI, user accounts, and basic commands of the iMAP and x3100 platforms.

Management
File and software management of the service provider switches.

Ethernet, Switching, and VLANs
A brief introduction to Ethernet, switching, VLAN basics and how it applies to the service provider network.

Ethernet Topology
Physical topologies, as well as logical (Layer 2) topologies and features are discussed here, such as Spanning Tree Protocol (STP), Rapid Spanning-Tree Protocol (RSTP), and an introduction to Ethernet Protection Switching Ring (EPSR).

Extending Functionality
Introduction to other features of the iMAP family such as LLDP, IGMP, DHCP Relay, QoS, and SNMP.

Service Modules
Discuss the different service modules and module specific configuration.

Media Gateways
An overview and introduction to the intelligent Multiservice Gateway (iMG) family of CPE devices.

NMS Section Outline

Network Management Concepts
A brief overview of network management protocols and applications.

Preparing for and Installing AlliedView NMS
Discuss the requirements for installing AlliedView NMS and the network device preparations needed.

General Administration
Getting started with AlliedView NMS, discovering devices, and configuring users and groups.

Network Maps and Inventory
Utilize AlliedView NMS to create physical and logical network maps, as well as manage network inventory.

Managing Devices and Tasks
Manage device configurations and software using AlliedView NMS and create tasks to automate frequent operations.

Fault Management
Tweak alarm collections and presentation. Manage network and syslog events.

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