

Certified Allied Telesis Professional / Switches & Router - CAP/RS

Duration: 3 day, Classroom based, Instructor led

Language: English

Certification Requirements:

- Attendees will be required to pass a written or web-based exam at the completion of the course. The title of Certified Allied Telesis Professional (CAP) will be awarded to all attendees that receive a passing score on the exam

Introduction:

- This course is aimed at providing in-depth knowledge to install, configure and troubleshoot Allied Telesis routers and Layer 3 switches. The objective of this 3-day course is to transfer knowledge to those customers, typically who sell installation and maintenance services to their customers and thus need to ensure they have enough skilled field and system engineers to do so. The course is designed to give the participants the theory behind configuration tasks and the opportunity to try the configurations and to understand how to debug existing networks.

Prerequisites:

- CAI / CAT – Certified Allied Telesis Installer or Technician exam passed
or
- An equivalent certification from another network vendor

Intended Audience:

- Engineers who set up complex networks based on Allied Telesis routers and Layer 3 switches. The training is designed to provide to all participants the opportunity to make practical tests and to obtain the necessary knowledge to manage and troubleshoot ATI routers/switches in complex environments

Scheduling:

- To schedule a class or to get more information, please use our website:
www.alliedtelesis.co.uk → Service&Support → Training

or contact Training.EU@alliedtelesis.com

Objectives:

- After completion of the course the course attendees will be able to:
 - Describe the differences between layer 2 and layer 3 switches
 - Understand how networks are architecturally split into the edge and the core sections
 - Identify the key criteria for deploying layer 2 or layer 3 switches in a basic network design
 - Understand the operation and utilization of VLANs on all the important Allied Telesis edge and core switches.

- Understand the concepts and implementation of the different Spanning Tree Protocol implements available and how they can improve network stability
- Understand the concepts of Port Aggregation and how they are implemented on the various Allied Telesis switches
- Understand the concepts and implementation of various routing protocols on the Allied Telesis core switches and routers.
- Understand and use the different configuration methods available for Allied Telesis edge and core switches, using the CLI.

Training is relevant for the following products:

- AT-8000S/GS
- AT-9900
- AT-x900
- AT-SBx908
- AT-SB4000
- AT-9400

Outline:

Introduction: This general module starts the course and provides the logistics for the students. It also includes an overview of the modules within the course.

- Service and Support: This short standard module provides contact information and also an information about Net.Cover support
- Hardware overview: This should be a single slide overview of where the products fit in the portfolio. The objective is only to provide an overview, and not review the product features.
- Operations: This module is a key to the success of the course and provides the basis to all other modules. It covers all the supported platforms. Relative importance of the platforms in this course:
 - AW Plus
 - AW
 - 8000S/GS
- Only the CLI will be used in the course, and these should be described in some detail. It is important to allow enough time that students understand the concepts and also afterwards put them into practice in the lab sessions.
 - Serial port and client software configuration
 - User name and password concept
 - Levels of access, command line structure, and function keys
 - Help, command completion

- Storage architecture (running, startup, current, flash, etc). What is booted, etc.
- Licensing
- File system and commands, external device support
 - reboot, restart of switches
 - basic “show” commands
 - set, do, exec command concepts
 - firmware upgrade
 - L2/L3 switching concepts, and how they affect management
 - configure initial IP and GUI, and TELNET (SSH)
 - port names, ranges and level 1 configurations.
 - switching
 - IP ICMP commands
 - Power-over-Ethernet (edge switches)
 - xDSL and E1 overview
 - Lab session

- VLAN:
 - types, terminology and uses
 - VID
 - port VLAN
 - trunk VLAN
 - private VLAN
 - Lab session

- Spanning Tree:
 - Concept and description of different types
 - RSTP
 - MSTP
 - Lab session

- Trunking/Aggregation:
 - Terminology and static vs. LACP
 - static aggregation configuration
 - LACP configuration

- Lab session

- Stacking (only the edge switches):
 - Different stacking concepts
 - configuration
 - Lab session

- Routing:
 - short overview IP, subnet, gateway
 - static routing concept
 - ports, and interface IP configuration syntax
 - short dynamic routing overview

- DNS, DHCP Internet utilities:
 - overview

- Debugging and troubleshooting
 - event logging
 - SNMP
 - counters
 - enabling debug

- On-line certification exam