

Certified Allied Telesis Professional / Enterprise Solution - CAP/ENT

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 hands-on course is aimed at providing in-depth knowledge to install, configure and troubleshoot Allied Telesis Enterprise Network Solution products (AT-SBX908, AT-X900, AT-X600, AT-8000S/GS). The objective of this 3-day course is to train installation and maintenance engineers to use the correct design and configurations to support the features of the Solution. 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 any issues.

Prerequisites:

- Basic understanding of Ethernet and IP and subnetting.

Intended Audience:

- Engineers who wish to install the Alliedtelesis enterprise solution products using approved design and configuration. The course is a requirement for companies to join the ATI Partner Program.

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:

- At the completion of the course attendees will be able to:
 - Identify the Key products used for the Enterprise solution
 - Apply design rules to appropriately scale the solution
 - Understand the tasks required for essential system management
 - Understand the application and configuration of features used for:
 - Resilience
 - Security
 - Traffic control
 - Application support

Outline:

- **Operations management**
 - **The Operations module covers the standard command set and maintenance tasks used in the Alliedware Plus® and associated Operating Systems**
 - Command Line Interface basics
 - Web GUI access
 - File systems
 - Software upgrade
 - Configuration backup/restore

- **L2 Switching**
 - **The L2 switching module covers the functionality of L2 switching in the Enterprise Solution Products.**
 - Port control
 - Port mirroring
 - Port security
 - Stats and information

- **VLANs**
 - **The VLAN section covers the commands and operation for 802.1Q VLAN operation in Enterprise Solution Products**
 - What are VLANs
 - Implementation of 802.1Q tagged and untagged VLANs

- **Stacking**
 - **The Stacking section covers the essentials for stacking AlliedWare Plus and associated Enterprise solution products.**
 - Rules for stacking
 - How to build the stack
 - Monitoring and debugging

- **Link Aggregation**
 - **The Link aggregation section explains the concepts and rules for building aggregated links (port trunks) between switch stacks.**
 - Guidelines for building aggregated links
 - Commands for configuration
 - Monitoring

- **STP and RSTP**
 - **The STP and RSTP section provides the understanding and configuration rules for building resilient networks requiring Spanning Tree Protocol for the Alliedware Plus® OS and associated Enterprise solution products**
 - What is STP and RSTP?
 - Understanding switch and port roles
 - CLI and GUI configuration

- **EPSR**
 - **The EPSR section introduces the concept of the Ethernet Protected Switched Ring protocol on Alliedware Plus® Switches**
 - EPSR overview
 - Implementation
 - Debugging
- **Routing**
 - **The Routing section covers the basic concepts and configuration of L3 services in Alliedware Plus® Switches**
 - IPV4 and IPV6 refresher
 - RIP and OSPF routing protocols
 - Configuration of IP interfaces and simple routing.
- **Multicast**
 - **The Multicast section covers the concepts of Multicast control and configuration required on the Enterprise Solution switch families.**
 - IGMP theory
 - PIM-Sparse mode theory
 - Configuration for IGMP and PIM
- **QoS**
 - **The QoS section covers the basic Quality of Service requirements for enterprise networking and how to implement simple QoS schemes on the Enterprise Solution products**
 - Review of QoS concepts
 - Hardware filters using QoS in AW+
 - Commands for configuration of QoS
- **Security**
 - **The Security section introduces the concept of securing the network from unauthorised access**
 - Secure Shell (SSH)
 - 802.1x
 - Access Control Lists
- **Power over Ethernet**
 - **The PoE covers the basics of PoE technology and relevant configuration for Enterprise Solution switches**
 - Technology overview
 - Configuration and monitoring commands

Schedule:

Day 1	Day 2	Day 3
Introductions	Stacking	Multicast
Product overview	Link Aggregation	QoS
Operations Management	STP and RSTP	Security
L2 Switching	EPSR	Power Over Ethernet
VLANs	Routing	Final Exam