Contents

TPNA SOHO Training Course Detailed Introduction

TPNA _ Basic Network Introduction

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers & Sales of TP-LINK subsidiaries

Entry Requirements

- Interested in network devices (for Home) and hope to learn involved technologies

Objectives

After completing this training course, you should be able to:

- Know the basic network knowledge about WAN (wide area network), LAN (local area network) and WLAN (wireless local area network)

- Know the OSI and TCP/IP network models

- Know the basic concepts and related protocols of network data link layer

- Know the basic concepts and related protocols of network internet layer

- Know the basic concepts and related protocols of network transport layer

- Know the basic concepts and related protocols of network application layer

Contents

This training course includes the following contents:

- Network intro including WAN (wide area network), LAN (local area network) and WLAN (wireless local area network)

- OSI and TCP/IP network models

- Basic concepts and related protocols of network data link layer

- Basic concepts and related protocols of network internet layer

- Basic concepts and related protocols of network transport layer

- Basic concepts and related protocols of network application layer

Duration

2 hours

TPNA _ Basic Wireless Introduction

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers & Sales of TP-LINK subsidiaries

Entry Requirements

- Interested in network devices (for Home) and hope to learn involved technologies

Objectives

After completing this training course, you should be able to:

- Know the basic concepts of wireless communication

- Know the related technologies of wireless communication

- Know the transmission process of wireless communication

- Know the basic concepts and related technologies of WLAN (wireless local area network)

Contents

This training course includes the following contents:

- Basic concepts of wireless communication

- Related technologies of wireless communication

- Transmission process of wireless communication

- Basic concepts and related technologies of WLAN (wireless local area network)

Duration

2 hours

TPNA _ Wireless Router

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers & Sales of TP-LINK subsidiaries

Entry Requirements

- Interested in SOHO network devices and have basic network and wireless knowledge

- It's recommended to complete the training courses (TPNA Basic Network Introduction & TPNA Basic Wireless Introduction) first

Objectives

After completing this training course, you should be able to:

- Know the market demands of wireless routers

- Know the typical application scenarios of wireless routers

- Know IEEE 802.11Wireless LAN standards (WLAN) including 802.11n & 802.11ac standards

- Know the configuration methods of TP-LINK wireless routers

- Know the advanced functions of TP-LINK wireless routers

- Know TP-LINK wireless routers

- Know Q/A & Troubleshooting about TP-LINK wireless routers

Contents

This training course includes the following contents:

- Market demands of wireless routers

- Typical application scenarios of wireless routers

- IEEE 802.11Wireless LAN standards (WLAN) including 802.11n and 802.11ac

- Configuration methods of TP-LINK wireless routers

- Advanced functions of TP-LINK wireless routers

- TP-LINK wireless routers intro

- Q/A & Troubleshooting about TP-LINK wireless routers

Duration

2 hours

TPNA _ Wireless Adapter

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers & Sales of TP-LINK subsidiaries

Entry Requirements

- Interested in SOHO network devices and have basic network and wireless knowledge

- It's recommended to complete the training courses (TPNA Basic Network Introduction & TPNA Basic Wireless Introduction) first

Objectives

After completing this training course, you should be able to:

- Know the typical application scenarios of wireless adapters

- Know TP-LINK wireless adapters

- Know TP-LINK 11AC wireless adapters

- Know the installation & configuration methods of TP-LINK wireless adapters

- Know the advanced functions of TP-LINK wireless adapters

- Know Q /A about TP-LINK wireless adapters

Contents

This training course includes the following contents:

- Typical application scenarios of wireless adapters

- TP-LINK wireless adapters intro

- TP-LINK 11AC wireless adapters intro

- Installation & configuration methods of TP-LINK wireless adapters

- Advanced functions of TP-LINK wireless adapters

- Q /A about TP-LINK wireless adapters

Duration

2 hours

TPNA _ AP & RE

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers & Sales of TP-LINK subsidiaries

Entry Requirements

- Interested in SOHO network devices and have basic network and wireless knowledge

- It's recommended to complete the training courses (TPNA Basic Network Introduction & TPNA Basic Wireless Introduction) first

Objectives

After completing this training course, you should be able to:

- Know the user demands of AP/RE products

- Know the typical application scenarios of AP/RE products

- Know AP/RE products involved technologies including Wireless Distributed System, Smart DHCP and Domain Name Login etc.

- Know the configuration methods of TP-LINK AP/RE products

- Know the advanced functions of TP-LINK AP/RE products

- Know TP-LINK AP/RE products

- Know Q/A & Troubleshooting about TP-LINK AP/RE products

Contents

This training course includes the following contents:

- User demands of AP/RE products

- Typical application scenarios of AP/RE products

- AP/RE products involved technologies including Wireless Distributed System, Smart DHCP and Domain Name Login etc.

- Configuration methods of TP-LINK AP/RE products

- Advanced functions of TP-LINK AP/RE products

- TP-LINK AP/RE products intro

- Q/A & Troubleshooting about TP-LINK AP/RE products

Duration

2 hours

TPNA _ PLC

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers & Sales of TP-LINK subsidiaries

Entry Requirements

- Interested in SOHO network devices and have basic network and wireless knowledge

- It's recommended to complete the training courses (TPNA Basic Network Introduction & TPNA Basic Wireless Introduction) first

Objectives

After completing this training course, you should be able to:

- Know the user demands of PLC products

- Know the typical application scenarios of PLC products

- Know PLC products involved technologies including HomePlug AV1 and HomePlug AV2

- Know the configuration methods of TP-LINK PLC products

- Know the advanced functions of TP-LINK PLC products

- Know TP-LINK PLC products

- Know Q/A & Troubleshooting about TP-LINK PLC products

Contents

This training course includes the following contents:

- User demands of PLC products

- Typical application scenarios of PLC products

- PLC products involved technologies including HomePlug AV1 and HomePlug AV2

- Configuration methods of TP-LINK PLC products

- Advanced functions of TP-LINK PLC products

- TP-LINK PLC products intro

- Q/A & Troubleshooting about TP-LINK PLC products

Duration

2 hours

TPNA _ xDSL

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers & Sales of TP-LINK subsidiaries

Entry Requirements

- Interested in SOHO network devices and have basic network and wireless knowledge

- It's recommended to complete the training courses (TPNA Basic Network Introduction & TPNA Basic Wireless Introduction) first

Objectives

After completing this training course, you should be able to:

- Know the market demands and typical application scenarios of xDSL products

- Know the xDSL involved technologies, standards and development history

- Know TP-LINK xDSL products

- know Q&A and Troubleshooting about TP-LINK xDSL products

Contents

This training course includes the following contents:

- Market demands and typical application scenarios of xDSL products

- xDSL involved technologies, standards and development history

- TP-LINK xDSL products intro

- Q&A and Troubleshooting about TP-LINK xDSL products

Duration

2 hours

TPNA _ 3G & LTE

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers & Sales of TP-LINK subsidiaries

Entry Requirements

- Interested in SOHO network devices and have basic network and wireless knowledge

- It's recommended to complete the training courses (TPNA Basic Network Introduction & TPNA Basic Wireless Introduction) first

Objectives

After completing this training course, you should be able to:

- Know the market demands of 3G/4G products

- Know the typical application scenarios of 3G/4G products

- Know 3G/4G involved technologies and development history

- Know TP-LINK 3G/4G products

- Know how to configure and use TP-LINK 3G/4G products

- Know different functions of TP-LINK 3G/4G products

- Know Q/A & Troubleshooting about TP-LINK 3G/4G products

Contents

This training course includes the following contents:

- Market demands of 3G/4G products

- Typical application scenarios of 3G/4G products

- 3G/4G involved technologies and development history

- TP-LINK 3G/4G products intro

- Configuration methods of TP-LINK 3G/4G products

- Different functions of TP-LINK 3G/4G products

- Q/A & Troubleshooting about TP-LINK 3G/4G products

Duration

2 hours

TPNA _ GPON

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers & Sales of TP-LINK subsidiaries

Entry Requirements

- Interested in SOHO network devices and have basic network and wireless knowledge

- It's recommended to complete the training courses (TPNA Basic Network Introduction & TPNA Basic Wireless Introduction) first

Objectives

After completing this training course, you should be able to:

- Know the basic concepts and advantages of GPON

- Know the GPON Network Architecture

- Know the technical features of GPON

- Know TP-LINK GPON products

- Know Q/A & Troubleshooting about TP-LINK GPON products

Contents

This training course includes the following contents:

- Basic concepts and advantages of GPON

- GPON Network Architecture

- Technical features of GPON

- TP-LINK GPON products intro

- Q/A & Troubleshooting about TP-LINK GPON products

Duration

2 hours

TPNA _ Cable

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers & Sales of TP-LINK subsidiaries

Entry Requirements

- Interested in SOHO network devices and have basic network and wireless knowledge

- It's recommended to complete the training courses (TPNA Basic Network Introduction & TPNA Basic Wireless Introduction) first

Objectives

After completing this training course, you should be able to:

- Know the basic concepts of cable access

- Know the related technologies and standards of cable access

- Know TP-LINK cable products

- Know the installation & configuration methods of TP-LINK cable products

- Know the outstanding function features of TP-LINK cable products

- Know the Troubleshooting about TP-LINK cable products

Contents

This training course includes the following contents:

- Basic concepts of cable access

- Related technologies and standards of cable access

- TP-LINK cable products intro

- Installation & configuration methods of TP-LINK cable products

- Outstanding function features of TP-LINK cable products

- Troubleshooting about TP-LINK cable products

Duration

2 hours

TPNA SMB Training Course Detailed Introduction

TPNA _ SMB Basic

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers & Sales of TP-LINK subsidiaries

Entry Requirements

- Having basic network knowledge

- Having basic wireless RF (radio frequency) communication knowledge

Objectives

After completing this training course, you should be able to:

- Know the basic knowledge about network and wireless RF (radio frequency) communication

- Know the OSI and TCP/IP network models

- Know the different LAN (local area network) standards (especially Ethernet standard among them)

- Know the different network device components including CPU, memory, twisted pair cable, fiber, fiber connector, optical module, power supply, fan and rack etc.

- Know the common network devices including layer 2 switches, layer 3 switches and routers

- know the common network problem debugging methods

- Know the basic concepts about wireless RF (radio frequency) communication including wavelength, frequency, amplitude, phase, reflection, scattering, refraction, attenuation, gain, multipath, power, SNR, receiving sensitivity, free-space path loss, link margin etc.

- Know the basic concepts about antenna including antenna gain, radiation pattern, beam width, polarization, antenna types, Fresnel zone and earth curvature etc.

Contents

This training course includes the following contents:

- Network development history and related basic concepts

- OSI and TCP/IP network models

- LAN (local area network) technologies

- Ethernet technology

- Different network device components intro including CPU, memory, twisted pair cable, fiber, fiber connector, optical module, power supply, fan and rack etc.

- Common network devices intro including layer 2 switches, layer 3 switches and routers

- Common network problem debugging methods

- Basic concepts about wireless RF (radio frequency) communication including wavelength, frequency, amplitude, phase, reflection, scattering, refraction, attenuation, gain, multipath, power, SNR , receiving sensitivity, free-space path loss, link margin etc.

- Basic concepts about antenna including antenna gain, radiation pattern, beam width, polarization, antenna types, Fresnel zone and earth curvature etc.

Duration

2 hours

TPNA _ SMB Switch

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers & Sales of TP-LINK subsidiaries

Entry Requirements

- Having basic network and wireless RF (radio frequency) communication knowledge

- It's recommended to complete the training course (TPNA SMB Basic) first

Objectives

After completing this training course, you should be able to:

- Know the market demands of switches and the common classifications of switches

- Know TP-LINK switch product line and TP-LINK switch name rules

- Know the physical features of TP-LINK Switches

- Know the layer 2 basic software features of TP-LINK Switches

- Know the layer 2 advanced software features of TP-LINK Switches

- Know the layer 3 software features of TP-LINK Switches

- Know the competitive comparison between TP-LINK Switches and other companies' switches

- Know the typical scenarios of TP-LINK Switches

Contents

This training course includes the following contents:

- Market demands of switches and common classifications of switches

- Overview of TP-LINK Switches and TP-LINK switch name rules

- Physical features of TP-LINK Switches

- Layer 2 basic software features of TP-LINK Switches

- Layer 2 advanced software features of TP-LINK Switches

- Layer 3 software features of TP-LINK Switches

- Competitive comparison between TP-LINK Switches and other companies' switches

- Typical scenarios of TP-LINK Switches

Duration

4 hours

TPNA _ SMB Router

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers & Sales of TP-LINK subsidiaries

Entry Requirements

- Having basic network and wireless RF (radio frequency) communication knowledge

- It's recommended to complete the training course (TPNA SMB Basic) first

Objectives

After completing this training course, you should be able to:

- Know the SMB (small & medium-sized business) network demands
- Know the advantages & highlights of TP-LINK SMB Routers compared with SOHO Routers
- Know the software function features of TP-LINK SMB Routers
- Know the typical application scenarios of TP-LINK SMB router's main functions
- Know the basic troubleshooting methods of TP-LINK SMB Routers

Contents

This training course includes the following contents:

- SMB (small & medium-sized business) network demands including demands like high performance, high stability, load balance, firewall and VPN etc.
- TP-LINK SMB routers intro
- Different software functions of TP-LINK SMB routers
- Q/A (Questions/Answers) about TP-LINK SMB routers
- Troubleshooting about TP-LINK SMB routers

Duration

2 hours

TPNA _ Business Wi-Fi Outdoor

Object

- Technical Engineers of TP-LINK agents
- Technical Engineers of TP-LINK partners
- Technical Support Engineers & Sales of TP-LINK subsidiaries

Entry Requirements

- Having basic network and wireless RF (radio frequency) communication knowledge

- It's recommended to complete the training course (TPNA SMB Basic) first

Objectives

After completing this training course, you should be able to:

- Know the market demands of business outdoor Wi-Fi and the typical outdoor Wi-Fi scenarios

- Know the challenges of Outdoor Wi-Fi Deployment caused by Environment and the corresponding solutions

- Know the challenges of Outdoor Wi-Fi Deployment caused by long distance and the corresponding solutions

- Know the hardware features of TP-LINK Pharos Outdoor Wi-Fi solution

- Know the software features of TP-LINK Pharos Outdoor Wi-Fi solution

- Know the typical application scenarios of TP-LINK Pharos Outdoor Wi-Fi Solution

- Know the competitive comparison between TP-LINK Pharos Series Products and other companies' outdoor products

Contents

This training course includes the following contents:

- Market demands of business outdoor Wi-Fi and typical outdoor Wi-Fi scenarios

- Challenges of Outdoor Wi-Fi Deployment (Environment) and corresponding solutions

- Challenges of Outdoor Wi-Fi Deployment (long distance) and corresponding solutions

- TP-LINK Pharos Outdoor Wi-Fi solution (Hardware)

- TP-LINK Pharos Outdoor Wi-Fi solution (Software)

- TP-LINK Pharos Outdoor Wi-Fi Solution (Scenarios)

- Competitive comparison between TP-LINK Pharos Series Products and other companies' outdoor products

Duration

2 hours

TPNA _ Business Wi-Fi Indoor

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers & Sales of TP-LINK subsidiaries

Entry Requirements

- Having basic network and wireless RF (radio frequency) communication knowledge

- It's recommended to complete the training course (TPNA SMB Basic) first

Objectives

After completing this training course, you should be able to:

- Know the market demands of business indoor Wi-Fi and the related deployment challenges

- Know TP-LINK EAP series, including appearances, installation methods, power supply methods and hardware design etc.

- Know different EAP Centralized Management Solutions (especially Cluster & Software Controller solutions among them)

- Know the software features of TP-LINK EAP Controller

- Know the advanced functions of TP-LINK EAP Series

- Know the competitive comparison between TP-LINK EAP series and other companies' EAP products

Contents

This training course includes the following contents:

- Market demands of business indoor Wi-Fi and related deployment challenges

- TP-LINK EAP Series Intro

- Different EAP Centralized Management Solutions

- TP-LINK EAP Controller Software Intro

- Advanced Functions of TP-LINK EAP Series

- Competitive comparison between TP-LINK EAP series and other companies' EAP products

Duration

2 hours

TPNP SMB Business Wi-Fi Training Course Detailed Introduction

TPNP _ Business Wi-Fi Outdoor

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers of TP-LINK subsidiaries

Entry Requirements

- Having abundant network and wireless RF(radio frequency) communication knowledge

- It's required to pass TPNA SMB certification Examination and get TPNA SMB certificate first

Objectives

After completing this training course, you should be able to:

- Know the preliminary investigation of business outdoor Wi-Fi deployment including necessity & feasibility analysis, field test and solution plan

- Know the actual outdoor Wi-Fi deployment including location selection, installation, channel optimization, antenna alignment and throughput test

- Know the post trouble shooting of outdoor Wi-Fi deployment including solving problems like wireless connection drops frequently, wireless speed is low or outdoor AP crashes frequently

Contents

This training course includes the following contents:

- Preliminary investigation of business outdoor Wi-Fi deployment including necessity & feasibility analysis, field test and solution plan

- Actual outdoor Wi-Fi deployment including location selection, installation, channel optimization, antenna alignment and throughput test

- Post trouble shooting of outdoor Wi-Fi deployment including solving problems like wireless connection drops frequently, wireless speed is low or outdoor AP crashes frequently

Duration

2 hours

TPNP _ Business Wi-Fi Indoor

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers of TP-LINK subsidiaries

Entry Requirements

- Having abundant network and wireless RF(radio frequency) communication knowledge

- It's required to pass TPNA SMB certification Examination and get TPNA SMB certificate first

Objectives

After completing this training course, you should be able to:

- Know the common scenarios and solutions of business indoor Wi-Fi

- Know the deployment (installation) methods of TP-LINK EAP products

- Know the deployment (optimization) methods of TP-LINK EAP products

- Know the deployment & installation methods of TP-LINK EAP Controller

- Know the highlights of TP-LINK EAP Controller including Multi-sites, WLAN Group, Band Steering.

- Know the different configuration methods of 5 captive portal authentication types

Contents

This training course includes the following contents:

- Common scenarios and solutions of business indoor Wi-Fi

- Deployment (installation) methods of TP-LINK EAP products

- Deployment (optimization) methods of TP-LINK EAP products

- Deployment & installation methods of TP-LINK EAP Controller

- Highlights of TP-LINK EAP Controller including Multi-sites, WLAN Group, Band Steering

- Different configuration methods of 5 captive portal authentication types

Duration

2 hours

TPNP SMB Routing & Switching Training Course Detailed Introduction

TPNP _ Switching _ Stack

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers of TP-LINK subsidiaries

Entry Requirements

- Having abundant network knowledge

- It's required to pass TPNA SMB certification Examination and get TPNA SMB certificate first

Objectives

After completing this training course, you should be able to:

- Know the background and advantages of stack

- Know the basic concepts of stack

- Know the process of stack formation, stack management and stack maintenance

- Know the behaviors of stack's high reliability

- Know the configuration methods of stack on TP-LINK Switches

Contents

This training course includes the following contents:

- Background and advantages of stack

- Basic concepts of stack

- Stack formation, stack management and stack maintenance explanation

- Stack's high reliability explanation

- Experiments: how to configure stack function on TP-LINK Switches

Duration

2 hours

TPNP _ Switching _ LAG

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers of TP-LINK subsidiaries

Entry Requirements

- Having abundant network knowledge

- It's required to pass TPNA SMB certification Examination and get TPNA SMB certificate first

Objectives

After completing this training course, you should be able to:

- Know the basic usage of LAG

- Know the basic concepts of LAG

- Know the features, working mechanism and principle of static LAG

- Know the features, working mechanism and principle of dynamic LAG

- Know the configuration methods of LAG on TP-LINK Switches

- Complete dynamic LAG (LACP protocol) analysis based on LACP protocol data packets

Contents

This training course includes the following contents:

- Basic usage of LAG

- Basic concepts of LAG

- Static LAG explanation

- Dynamic LAG explanation

- Experiment: how to configure LAG(static LAG & dynamic LAG) functions on TP-LINK Switches

Duration

2 hours

TPNP _ Switching _ VLAN

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers of TP-LINK subsidiaries

Entry Requirements

- Having abundant network knowledge

- It's required to pass TPNA SMB certification Examination and get TPNA SMB certificate first

Objectives

After completing this training course, you should be able to:

- Know the background of VLAN

- Know the basic concepts of VLAN

- Know the working mechanism and principle of 802.1Q VLAN

- Know the configuration methods of 802.1Q VLAN on TP-LINK Switches

- Know the working mechanism and principle of MAC VLAN

- Know the configuration methods of MAC VLAN on TP-LINK Switches

- Know the working mechanism and principle of Protocol VLAN

- Know the configuration methods of Protocol VLAN on TP-LINK Switches

- Know the working mechanism and principle of GVRP

- Know the configuration methods of GVRP on TP-LINK Switches

- Know the working mechanism and principle of VLAN VPN

- Know the configuration methods of VLAN VPN on TP-LINK Switches

Contents

This training course includes the following contents:

- Background of VLAN

- Basic concepts of VLAN

- 802.1Q VLAN explanation

- Experiment: how to configure 802.1Q VLAN function on TP-LINK Switches

- MAC VLAN explanation

- Experiment: how to configure MAC VLAN function on TP-LINK Switches

- Protocol VLAN explanation

- Experiment: how to configure Protocol VLAN function on TP-LINK Switches

- GVRP explanation

- Experiment: how to configure GVRP function on TP-LINK Switches

- VLAN VPN explanation

- Experiment: how to configure VLAN VPN function on TP-LINK Switches

Duration

4 hours

TPNP _ Switching _ STP

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers of TP-LINK subsidiaries

Entry Requirements

- Having abundant network knowledge

- It's required to pass TPNA SMB certification Examination and get TPNA SMB certificate first

Objectives

After completing this training course, you should be able to:

- Know the background of STP

- Know the basic concepts, working mechanism and principle of STP

- Know the basic concepts, working mechanism and principle of RSTP

- Know the basic concepts, working mechanism and principle of MSTP

- Know the configuration methods of STP(STP, RSTP, MSTP) on TP-LINK Switches

- Complete STP/ RSTP/ MSTP protocol analysis based on STP protocol data packets

Contents

This training course includes the following contents:

- Background of STP

- STP explanation

- RSTP explanation

- MSTP explanation

- Experiment: how to configure STP(STP, RSTP & MSTP) functions on TP-LINK Switches

Duration

4 hours

TPNP _ Switching _ IGMP Snooping

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers of TP-LINK subsidiaries

Entry Requirements

- Having abundant network knowledge

- It's required to pass TPNA SMB certification Examination and get TPNA SMB certificate first

Objectives

After completing this training course, you should be able to:

- Know the basic multicast application

- Know IGMP protocol

- Know the working mechanism and principle of IGMP Snooping

- Know the working mechanism and principle of Multicast VLAN

- Know the working mechanism and principle of IGMP Proxy

- Know the configuration methods of IGMP Snooping & Multicast VLAN on TP-LINK Switches

- Complete IGMP & IGMP Snooping analysis based on IGMP protocol data packets

- Know the differences between IGMP Snooping and IGMP Proxy

Contents

This training course includes the following contents:

- Basic multicast application

- IGMP explanation

- IGMP Snooping explanation

- Multicast VLAN explanation

- IGMP Proxy explanation

- Experiment: how to configure IGMP Snooping & Multicast VLAN function on TP-LINK Switches

- Comparison between IGMP Snooping and IGMP Proxy

Duration

2 hours

TPNP _ Switching _ Network Security

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers of TP-LINK subsidiaries

Entry Requirements

- Having abundant network knowledge
- It's required to pass TPNA SMB certification Examination and get TPNA SMB certificate first

Objectives

After completing this training course, you should be able to:

- Know the common network attacks and corresponding protection methods
- Know the AAA model
- Know the 802.1X authentication model
- Know the configuration methods of 802.1X authentication on TP-LINK Switches
- Complete 802.1x authentication analysis based on 802.1x related data packets

Contents

This training course includes the following contents:

- Common network attacks and corresponding protection methods
- AAA model explanation
- 802.1X authentication model explanation
- Experiment: how to configure 802.1X authentication function on TP-LINK Switches
- Data packets analysis: 802.1X authentication analysis based on 802.1X related data packets

Duration

2 hours

TPNP _ Switching _ SNMP

Object

- Technical Engineers of TP-LINK agents
- Technical Engineers of TP-LINK partners
- Technical Support Engineers of TP-LINK subsidiaries

Entry Requirements

- Having abundant network knowledge

- It's required to pass TPNA SMB certification Examination and get TPNA SMB certificate first

Objectives

After completing this training course, you should be able to:

- Know the basic concepts of SNMP

- Know the working mechanism and principle of SNMP v1

- Know the working mechanism and principle of SNMP v2c and SNMP v3

- Know different kinds of SNMP management software

- Know the configuration methods of SNMP(SNMP v1, SNMP v3) on TP-LINK Switches

- Complete SNMP protocol analysis based on SNMP data packets

Contents

This training course includes the following contents:

- Basic concepts of SNMP

- SNMP v1 explanation

- SNMP v2c & SNMP v3 explanation

- Different kinds of SNMP management software intro

- Experiment: how to configure SNMP(SNMP v1 & SNMP v3) functions on TP-LINK Switches

Duration

2 hours

TPNP _ Switching _ QoS

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers of TP-LINK subsidiaries

Entry Requirements

- Having abundant network knowledge

- It's required to pass TPNA SMB certification Examination and get TPNA SMB certificate first

Objectives

After completing this training course, you should be able to:

- Know the basic concepts of QoS

- Know different types of QoS

- Know the working mechanism of QoS DiffServ Model

- Know the working mechanism of QoS DiffServ Model

Contents

This training course includes the following contents:

- QoS Background

- QoS Types

- QoS DiffServ Model

- QoS DiffServ Experiment

- Voice VLAN

- Voice VLAN Experiment

Duration

2 hours

TPNP _ Switching _ ACL

Object

- Technical Engineers of TP-LINK agents
- Technical Engineers of TP-LINK partners
- Technical Support Engineers of TP-LINK subsidiaries

Entry Requirements

- Having abundant network knowledge
- It's required to pass TPNA SMB certification Examination and get TPNA SMB certificate first

Objectives

After completing this training course, you should be able to:

- Know the basic concepts of ACL
- Know the working mechanism of ACL
- Know different kinds of ACL rules
- Know the configuration steps of ACL in TP-Link Switches
- Know the application scenario of IP-MAC-VID-Port Binding
- Know the configuration methods of IP-MAC-VID-Port Binding

Contents

This training course includes the following contents:

- ACL
- ACL Experiment
- IP-MAC-VID-Port Binding
- IP-MAC-VID-Port Experiment

Duration

2 hours

TPNP _ Switching _ SSL&SSH

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers of TP-LINK subsidiaries

Entry Requirements

- Having abundant network knowledge

- It's required to pass TPNA SMB certification Examination and get TPNA SMB certificate first

Objectives

After completing this training course, you should be able to:

- Know the basic concepts of Access Security

- Know the working mechanism and configuration of Access Control

- Know the working mechanism and configuration of HTTP/HTTPS(SSL)

- Know the working mechanism and configuration of SSH

Contents

This training course includes the following contents:

- Access Security Overview

- Access Control Intro

- Access Control Experiment

- HTTP / HTTPS (SSL) Intro

- HTTP / HTTPS (SSL) Experiment

- SSH Intro

- SSH Experiment

Duration

2 hours

TPNP _ Switching _ LLDP

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers of TP-LINK subsidiaries

Entry Requirements

- Having abundant network knowledge

- It's required to pass TPNA SMB certification Examination and get TPNA SMB certificate first

Objectives

After completing this training course, you should be able to:

- Know the basic concepts of LLDP and LLDP-MED

- Know the working mechanism of LLDP and LLDP-MED

- Know the configuration steps of LLDP TP-Link Switches

- Know the meaning of LLDP-MED data packets

- Know the application scenario of LLDP and LLDP-MED

- Know the configuration methods of LLDP-MED when working with VoIP phone

Contents

This training course includes the following contents:

- LLDP Basic Concepts

- LLDP Experiment

- LLDP-MED Basic Concepts

- LLDP-MED Experiment

- LLDP-MED Data Packets Analysis

Duration

    2 hours

TPNP _ Switching _ Port

Object

- Technical Engineers of TP-LINK agents
- Technical Engineers of TP-LINK partners
- Technical Support Engineers of TP-LINK subsidiaries

Entry Requirements

- Having abundant network knowledge
- It's required to pass TPNA SMB certification Examination and get TPNA SMB certificate first

Objectives

After completing this training course, you should be able to:

- Know the basic concepts and working mechanism of switch port
- Know the working mechanism and configuration of Port Config
- Know the working mechanism and configuration of Port Mirror
- Know the working mechanism and configuration of Port Security
- Know the working mechanism and configuration of Port Isolation
- Know the working mechanism and configuration of Loopback Detection

Contents

This training course includes the following contents:

- Switch Port & Working Mechanism
- Port Config Intro and Experiment
- Port Mirror Intro and Experiment

- Port Security Intro and Experiment

- Port Isolation Intro and Experiment

- Loopback Detection Intro and Experiment

Duration

 2 hours

TPNP _ Routing _ Unicast Routing

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers of TP-LINK subsidiaries

Entry Requirements

- Having abundant network knowledge

- It's required to pass TPNA SMB certification Examination and get TPNA SMB certificate first

Objectives

After completing this training course, you should be able to:

- Know the basic concepts about routing table

- Know the routing forwarding process of data packets

- Know the configuration methods and usage of static routing (default routing)

- Know the working mechanism and principle of unicast routing protocol RIP

- Know the working mechanism and principle of unicast routing protocol OSPF

- Know the configuration methods of relevant routing functions (static routing, RIP, OSPF) on TP-LINK Switches.

- Complete routing protocol analysis based on routing protocol data packets

Contents

This training course includes the following contents:

- Basic concepts about routing table

- Routing forwarding process of data packets

- Static routing(default routing) explanation

- Dynamic routing protocol RIP explanation

- Experiment: how to configure RIP function on TP-LINK Switches

- Dynamic routing protocol OSPF explanation

- Experiment: how to configure OSPF function on TP-LINK Switches

Duration

4 hours

TPNP _ Routing _ Multicast Routing

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers of TP-LINK subsidiaries

Entry Requirements

- Having abundant network knowledge

- It's required to pass TPNA SMB certification Examination and get TPNA SMB certificate first

Objectives

After completing this training course, you should be able to:

- Know the background and basic concepts of IP multicast

- Know the working mechanism and principle of multicast routing protocol PIM-DM

- Know the working mechanism and principle of multicast routing protocol PIM-SM

- Know the configuration methods of multicast routing functions (PIM-DM & PIM-SM) on TP-LINK Switches.

- Know the differences between PIM-DM and PIM-SM

- Complete multicast routing protocol analysis based on multicast routing protocol data packets

Contents

This training course includes the following contents:

- IP multicast background and related basic concepts

- Multicast routing protocol PIM-DM explanation

- Experiment: how to configure PIM-DM function on TP-LINK Switches

- Multicast routing protocol PIM-SM explanation

- Experiment: how to configure PIM-SM function on TP-LINK Switches

- Comparison between PIM-DM and PIM-SM

Duration

4 hours

TPNP _ Routing _ VRRP

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers of TP-LINK subsidiaries

Entry Requirements

- Having abundant network knowledge

- It's required to pass TPNA SMB certification Examination and get TPNA SMB certificate first

Objectives

After completing this training course, you should be able to:

- Know the background and advantages of VRRP

- Know the basic concepts of VRRP

- Know the working mechanism and principle of VRRP

- Know how to achieve uplink monitoring function of VRRP

- Know how to achieve load balance function of VRRP

- Know the configuration methods of VRRP on TP-LINK Switches

- Complete VRRP protocol analysis based on VRRP protocol data packets

Contents

This training course includes the following contents:

- Background and advantages of VRRP

- Basic concepts of VRRP

- VRRP's working process explanation

- VRRP's uplink monitoring function explanation

- VRRP's load balance function explanation

- Experiment: how to configure VRRP function on TP-LINK Switches

Duration

2 hours

TPNP _ Routing _ DHCP

Object

- Technical Engineers of TP-LINK agents

- Technical Engineers of TP-LINK partners

- Technical Support Engineers of TP-LINK subsidiaries

Entry Requirements

- Having abundant network knowledge

- It's required to pass TPNA SMB certification Examination and get TPNA SMB certificate first

Objectives

After completing this training course, you should be able to:

- Know the background and advantages of DHCP

- Know the basic concepts of DHCP

- Know the application scenario of DHCP server and DHCP relay

- Know the configuration methods of DHCP server and DHCP relay in TP-Link switches

- Know how to assign IP addresses to the hosts in different subnets.

Contents

This training course includes the following contents:

- DHCP Background

- DHCP Basic Concepts

- DHCP Server

- DHCP Server Experiment

- DHCP Relay

- DHCP Relay Experiment

Duration

2 hours