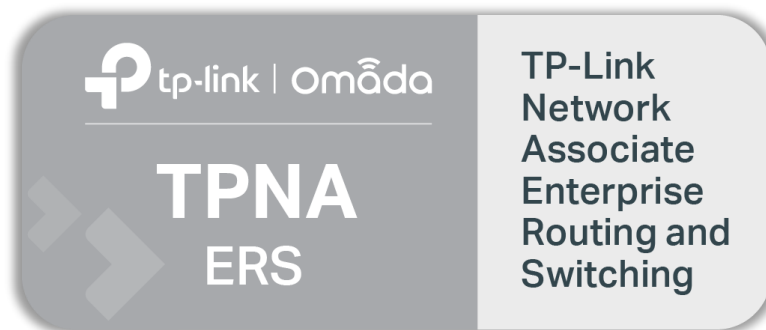# TP-Link Training and Certification

TP-Link Network Associate
Enterprise Routing and Switching

Course Outline

Version: 1.0

Introduction

TPNA Enterprise Routing and Switching, **TPNA(ERS)** for short, is an **entry-level** certification course based on TP-Link Enterprise routers and switches, focusing on foundational concepts and Stand-Alone configuration of wired networking.

This certification course is a two-day or three-day classroom training course, which includes theoretical learning and hands-on lab activities, led by an experienced TP-Link Certified Instructor, allowing students to quickly master the needed knowledge and skills.

At the end of the classroom training, students will take an online certification exam arranged by the TP-Link Certified Instructor or coordinator, and get the **TPNA Enterprise Routing and Switching** certificate by passing the exam at 70% or higher

Certificate Sample:

Training Outline

Target Audience

This course is designed for anyone seeking TPNA Enterprise Routing and Switching certification, including junior network engineers, sales and technicians.

Course Objectives

After completing the course, participants will

1) Know the applications of key functions of TP-Link enterprise-level routers and switches.
2) Be able to configure the key functions such as DHCP server, VLAN and ACL on TP-Link enterprise routers or switches in Standalone mode.
3) Provide basic support for TP-Link enterprise routers and switches in Standalone mode.

Prerequisites

No mandatory prerequisites but having basic network fundamentals is recommended.

Course Duration

3 Days (approximately 40% theoretical learning, and 60% hands-on lab activities.)

* The specific training duration and schedule are subject to your instructor.

Detailed Training Outline

▪ Theoretical Learning (accounting for 40% in the exam)

Title	Content
Module 1: Wired Basics	• Structure of OSI Model • LAN, WAN • Ethernet type • MAC Address • Twisted Pair & Fiber • Power Supply & Fan
Module 2: Enterprise Switch Introduction	• What is a switch? • Main Usage of Switch • Installation Layer of Switch • Ethernet Port • The difference between Unmanaged, Easy Smart, Smart, and Managed Switch • What is Optical Module • What is Media Converter
Module 3: Basic Functions of Enterprise Switch	• PoE • 802.1Q VLAN, PVID, Tagged/Untagged • static LAN, LACP • STP • Switch ACL • Port security

	• DHCP Snooping & Filter • IGMP Snooping
Module 4: Advanced Functions of Switch	• Layer 3 Interface • Routing • QoS
Module 5: Enterprise Router Introduction	• What's a Router? • Main Usage of Router • SOHO Router and Enterprise Router • Appearance Design of Enterprise Router
Module 6: Highlight Functions of Enterprise Router	• Load Balancing • Policy Routing • Link Backup • PPTP, L2TP, IPSec, OpenVPN • Portal Authentication • Multi-VLAN + Multi-Subnet • IPTV
Module 7: Advanced Functions of Enterprise Router	• Virtual server, One-to-One NAT • Multi-nets NAT • Online Detection • Behavior Control • IPv6

▪ Hands-On Labs (accounting for 60% in the exam)

Title	Contents
Section A: Basic Setup of Router and Switch	Using TP-Link Omada Router in Standalone mode: • A1 - Quick Setup • A2 - Configure DHCP Server • A3 - Configure Load Balancing Using TP-Link JetStream Switch in Standalone mode: • A4 - Basic Configuration • A5 - Configure Ports and LAGs • A6 - Configure 802.1Q VLAN
Section B: Advanced Setup of Omada Router (Choose 2 of 7 for Labs)	Using TP-Link Omada Router in Standalone Mode: • B1 - Configure NAT Features • B2 - Configure Web Filtering • B3 - Configure Access Control • B4 - Configure Bandwidth Control and Session Limit • B5 - Configure Portal Authentication
Section C:	Using TP-Link JetStream Switch in Standalone mode:

Advanced Setup of JetStream Switch	• C1 - Configure DHCP for Multiple VLAN Networks • C2 - Configure ACL • C3 - Configure Bandwidth Control • C4 - Configure Security Features

Exam Outline

Certification Exam Outline	
Exam Name	TPNA Enterprise Routing and Switching
Level	Associate (Entry-level)
Prepare for the Exam	Complete the training course for TPNA(ERS)
Exam Duration	80 minutes
Language	English by default
Question Type	40 questions in total with a mix of Single Choice (select one correct answer) and Multiple Answer (select more than one correct answer), including fill-in-the-blanks or ordering.
Delivery Method	Online proctored
Passing Score	▪ 56 points, 70% of the total score (Total score is 80 points as each question is preset to 2 points for the time being.)
Certificate Validity	3 years from the date of passing the exam
Exam Outline	The same as the **Detailed Training Outline**. 01. Product Theory – accounting for 40% • All module contents for Theoretical Learning could be included in the exam. 02. Practical Configuration – accounting for 60%.

Note:

The content above is only for reference, other related content not mentioned in this article may also appear in the exam. To better reflect what students need to master, this course outline is subject to change at any time without notice.