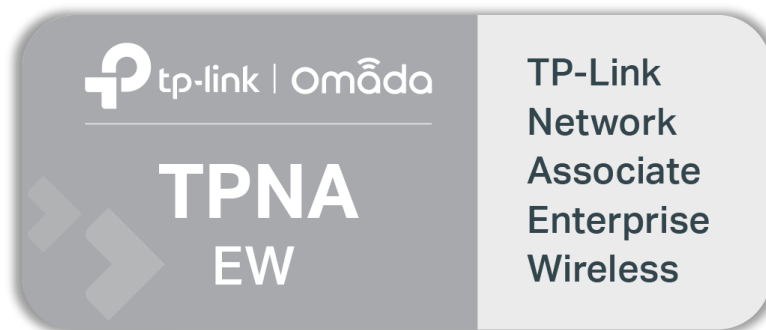


TP-Link Training and Certification

TP-Link Network Associate Enterprise Wireless

Course Outline



Version: 1.0



Introduction

TPNA Enterprise Wireless, **TPNA(EW)** for short, is an **entry-level** certification course based on TP-Link Omada SDN solution, focusing on foundational concepts and configurations of Enterprise Wireless Networking, supplemented by some basic contents of Wired products.

This certification course is a 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 Wireless** certificate by passing the exam at 70% or higher.

Certificate Sample:



Training Outline

Target Audience

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



Course Objectives

After completing the course, participants will

- 1) Know the applications and features of TP-Link Omada SDN solution.
- 2) Be able to deploy and configure a basic enterprise wireless network using Omada SDN Controller, Router, Switch and EAPs.
- 3) Know how to set up a basic wired network with Omada SDN controller.
- 4) Provide basic support for TP-Link Omada SDN solution.

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: Wireless Basics	<ul style="list-style-type: none">• RF Theory• Antenna• IEEE802.11• Wireless Channels
Module 2: Omada SDN and Devices	<ul style="list-style-type: none">• What is Omada SDN• The advantage of Omada SDN• Omada EAP types and application scenarios• Omada EAP installation methods• Omada EAP power supply methods• Omada SDN highlight features
Module 3: Omada SDN Controller	<ul style="list-style-type: none">• What is Omada SDN Controller• Omada Controller types and application scenarios• What is Omada APP• Features Bars
Module 4: Omada SDN Management Methods	<ul style="list-style-type: none">• Management types and application scenarios• Standalone mode via web browser or Omada APP• The advantage of Controller mode• Layer 2 management• Layer 3 management• Local management• Cloud management
Module 5:	<ul style="list-style-type: none">• What is the captive portal• Application scenarios of the portal

Omada SDN Highlight Features	<ul style="list-style-type: none"> • Application scenarios of local user and voucher • Portal access control • The advantage of the mesh network • Root AP and Mesh AP • The advantage of fast roaming • Deployment & Optimization for Fast Roaming
Module 6: Omada SDN Advanced Features	<ul style="list-style-type: none"> • Application scenarios of Load Balance • Application scenarios of Band Steering • Application scenarios of Airtime Fairness • Three kinds of rate limit • Guest network & Access control • Management VLAN • Multi-Site & Multi-WLAN groups • Application scenarios of auto backup
Module 7: Omada SDN Network Solution	<ul style="list-style-type: none"> • Omada Solution overview • How to use network deployment advisor • AP deployment in indoor and outdoor scenarios • Whole house mesh networking • Solution Design for Different Network Sizes

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

Title	Contents
Section A: Omada SDN Related	Using Omada SDN Controller: <ul style="list-style-type: none"> • A1 - Install Omada SDN Controller • A2 - Quick Setup and Basic Settings • A3 - Adopt and Manage Omada Devices • A4 - Set Wireless SSID for Different Users • A5 - Configure Multi-Networks & Multi-SSIDs • A6 - Configure Voucher Portal for Different Users
Section B: EAP Standalone	Using Omada EAP in Standalone Mode: <ul style="list-style-type: none"> • B1 - Manage Omada EAP Via Omada APP • B2 - Configure MAC Filtering
Section C: Controller Wired Related	Using Omada SDN Controller: <ul style="list-style-type: none"> • C1 - Configure Load Balancing Feature • C2 - Setup Site-to-Site Manual IPsec VPN
Section D: Controller & Controller Wireless Related	Using Omada SDN Controller: <ul style="list-style-type: none"> • D1 - Configure Cloud Access • D2 - Create User Accounts • D3 - Configure No Authentication Portal • D4 - Configure Fast Roaming • D5 - Configure Omada Mesh • D6 - Configure Reboot Schedule and PoE Schedule • D7 - Check the Clients Signal Strength and Estimate the Actual Speed • D8 - Adjust Radios Settings to Optimize the Wireless Performance

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| | <ul style="list-style-type: none">• D9 - Use the SMB Network Deployment Advisor to Design a Network Solution |
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Exam Outline

Certification Exam Outline	
Exam Name	TPNA Enterprise Wireless
Level	Associate (Entry-level)
Prepare for the Exam	Complete the training course for TPNA(EW)
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	<ul style="list-style-type: none">▪ 56 points, 70% of the total score
Certificate Validity	3 years from the date of passing the exam
Exam Outline	<p>The same as the <i>Detailed Training Outline</i>.</p> <p>01. Product Theory – accounting for 40%</p> <ul style="list-style-type: none">• All module contents for Theoretical Learning could be included in the exam. <p>02. Practical Configuration – accounting for 60%.</p>

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.