

# HP Education Services Course Description

ProCurve Secure WAN v5.21 (HH253)



This 4-day course provides network engineers with hands-on training in using ProCurve Secure Routers to create T1, E1, and Asymmetric Digital Subscriber Line (ADSL) WAN connections. The course also teaches network engineers how to configure the built-in firewall and optional capabilities, such as Integrated Services Digital Network (ISDN) backup connections and Virtual Private Networks (VPNs). ProCurve course number is 23459.

## Audience

- Network engineers or network professionals who have experience managing LANs but need to learn how to set up WAN connections or VPNs with the ProCurve Secure Router.

## Prerequisites

- AIS – ProCurve Networking certification
- Building ProCurve Resilient, Adaptive Networks (v7.42 or later)
- ProCurve Security
- ProCurve WAN Technologies

## Course Objective

Learn how to:

- Configure Ethernet interfaces on the ProCurve Secure Router
- Configure the ProCurve Secure Router to support Virtual LANs (VLANs)
- Configure the ProCurve Secure Router to provide Domain Name System (DNS) services or Dynamic Host Configuration Protocol (DHCP) services
- Configure and troubleshoot a T1 or E1 physical connection and its data-link-layer protocol—either Point-to-Point Protocol (PPP) or Frame Relay
- Configure and troubleshoot an ADSL connection and its data-link layer, Asynchronous Transfer Mode (ATM)
- Configure PPP over Ethernet (PPPoE) or PPP over ATM (PPPoA) for ADSL connections
- Configure backup interfaces to provide redundancy if a primary interface fails

## Benefits to You

- Learn to can identify the commands that can be used to perform basic troubleshooting
- Given a set of customer requirements, determine whether to use static routing, Routing Information Protocol (RIP), or Open Shortest Path First (OSPF)
- Become prepared to list the data-link option modules available for the ProCurve Secure Router 7102dl and the ProCurve Secure Router 7203dl and explain when companies would select each option
- Learn to configure RIP and OSPF on the ProCurve Secure Router
- Learn to configure the ProCurve Secure Router to function as a remote bridge and route non-IP traffic
- Be able to identify the modes available in the ProCurve Secure Router operating system (OS) and the tasks that can be performed in each mode

## Why education services from HP?

- Experienced and best-in-the-field HP instructors
- Focus on job-specific skills
- More than 80 training locations worldwide
- Customized on-site delivery
- Hands-on practice
- State-of-the-art classroom facilities
- Comprehensive student materials
- Online instructor-led and self-paced training at <http://www.hp.com/learn>
- Online instructor-led and self-paced training at <http://www.hp.com/education>

**Course Title:** ProCurve Secure WAN v5.21

**HP Product Number:** HH253

**Category/Subcategory:**

**Course Length:** 4 days; 50 % lecture; 50 % hands-on lab

**Level:** Intermediate level of proficiency

**Delivery Language:** Varies by country

**To Order:** You can order this course online at <http://www.hp.com/learn>. At the site, select a country, then choose "registration" or "Book a course" and fill out the online registration form

**Next Steps:** ProCurve Secure Wan v5.21 prepares participants for one of the required exams for ASE – ProCurve Networking certification within the HP Certified Professional program. The exam number is HPO-144. The certification test is offered at Prometric test centers. For registration information, contact your HP representative or visit <http://www.procurve.com/network-training/certifications/index.htm>

## Detailed Course Outline

**Module 1: ProCurve Secure Router Overview**

**Module 2: Operating the ProCurve Secure Router**

**Module 3: Ethernet Interfaces**

**Module 4: Virtual LANs**

**Module 5: DNS and DHCP**

**Module 6: T1 Interfaces**

**Module 7: E1 Interfaces**

**Module 8: PPP Interfaces**

**Module 9: Frame Relay Interfaces**

**Module 10: ADSL Interfaces**

**Module 11: Backup Interfaces**

**Module 12: Routing and Bridging**

**Module 13: ProCurve Secure Router OS Firewall**

**Module 14: Access Control Policies**

**Module 15: Network Address Translation**

**Module 16: Virtual Private Networks**

**Module 17: Quality of Service**

**Module 18: ProCurve VPN Client**

© Copyright 2009 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

To locate country contact information and to learn more about education services, please visit our worldwide web site at <http://www.hp.com/learn>

