

# HP switches for engineers

A 2 day **Hands on** training course



## Description

A hands on course covering the product specifics of HP switches. Installation, configuration, maintenance and troubleshooting are all covered in a practical oriented way. VLANs often take up a large part of the course. The course covers all interfaces but concentrates on using the command line interface. Delegates are, however, free to use the web based interface in all exercises.



## Key outcomes

By the end of the course delegates will be able to:

- ✓ Install HP switches.
- ✓ Use the command line interface and the web based interface to manage HP switches.
- ✓ Configure and troubleshoot HP switches.
- ✓ Perform software upgrades and maintain configurations using TFTP.



## Training approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning. Hands on sessions are used throughout to allow delegates to consolidate their new skills.



## Details

### Who will benefit?

Anyone working with HP switches. Particularly aimed at engineers and technicians supporting HP switches.

### Prerequisites

None

**Duration:** 2 days

**Customer rating:** ★★★★★

### Generic training



Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".

*"Friendly environment with expert teaching that teaches the why before the how."*  
G.C. Fasthosts

### Small class sizes



We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.

*"Excellent course. The small class size was a great benefit..."*  
M.B. IBM

### Hands On training



The majority of our courses use hands on sessions to reinforce the theory.

*"Not many courses have practice added to it. Normally just the theoretical stuff is covered."*  
J.W. Vodafone

### Our courseware



We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.

*"Comprehensive materials that made the course easy to follow and will be used as a reference point."*  
V.B. Rockwell Collins

### Customise your course



Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.

*"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."*  
S.R. Qinetiq

# HP switches for engineers

## Course content

### Introduction

Traditional Ethernet, Hubs, Frames, MAC addresses. Hands on: Building a network with a hub.

### What is a switch?

Switches versus hubs, the MAC address table, handling unknown addresses. Hands on: Building a network with HP switches.

### Configuration methods

How to configure a HP switch using: Console port access menus, CLI, telnet, web based access. Hands on: Console access, show commands, using the menus, IP address configuration, telnet.

### Command Line Interface

Operator mode, Manager mode, configuration mode, passwords, online help, CLI commands, basic troubleshooting. Hands on: More show commands, basic troubleshooting, setting a password, displaying status and counters.

### Web based interface

Web access, basic format, Getting started. SSL. Hands on: Web based configuration.

### Port configuration

Common port configuration tasks, port security, port aggregation, Hands on: Configuring ports. Trunking and failover.

### STP configuration

Broadcast storms. What is STP? RSTP. Configuring STP. Hands on: Enabling and disabling STP, investigation failover.

### VLANs

What are VLANs? 802.1Q, tagged/untagged, creating VLANs, applying VLANs. Addressing and VLANs, Layer 3 switches and VLANs. Hands on: Setting up VLANs, setting up tagged ports, Inter VLAN traffic.

### Housekeeping

TFTP, software upgrades, downloading configurations. Hands on: Software upgrade, downloading a configuration.

### SNMP

SNMP configuration, HP OpenView NNM. Hands on: Using SNMP to manage a HP switch.

### Basic troubleshooting

Putting it all together. Layer 1 troubleshooting, Layer 2 troubleshooting.

### Miscellaneous exercises

CDP. Logging

