

# Essential SD-WAN

A 1 day training course



## Description

SD-WAN is rapidly growing in use. This vendor neutral course starts with an introduction to what SD-WAN is and when it is useful. Each main area of SD-WAN is then studied in more detail to enable delegates to recognise the technologies used in SD-WAN and then use this information to evaluate SD-WAN products.



## Key outcomes

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

- ✓ Describe what SD-WAN is (and isn't).
- ✓ Explain how SD-WAN works.
- ✓ Evaluate SD-WAN products.
- ✓ Compare and contrast SD-WAN with other technologies such as MPLS, Ethernet, SDN, NFV and WAN optimisation.



## 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.



## Details

### Who will benefit?

Anyone wishing to learn about SD-WAN.

### Prerequisites

Network fundamentals.

**Duration:** 1 day

**Customer rating:** New course

### 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

# Essential SD-WAN

## Course content

### What is SD-WAN?

What is SD and SDN? What is WAN? Branch/Office. MPLS, MPLS vs Internet, Ethernet, Broadband, LTE/4G, Cable, Satellite. The impact of the cloud. Single console, Dynamic path selection, automation. Why SD-WAN?

### Summary

SD-WAN doesn't replace MPLS, virtualisation and SD-WAN. Relationship with SDN and NFV. SD-WAN versus WAN optimisation.

### Single console

Network management, orchestration, administration. Example GUI interfaces. Northbound and southbound APIs.

### Dynamic path selection

SD-WAN transports, Overlay networks, security. VPNs, IPsec. QoS and prioritization. Policies, traffic path rules. Application specific routing, bonding, optimisation.

### Automation

Time saving, removing errors. Zero touch, ZOOM, ZTP. The role of the orchestrator. Real time monitoring of the network. APIs.

### Architecture and products

Hardware solutions, software solutions, virtual appliances. Clouds. SD-WAN edge devices, SD-WAN controllers, Orchestrators. HA and SD-WAN. Riverbed, Cisco, Juniper, others.

## What our customers say

*"Absolutely brilliant, very knowledgeable and helpful trainer would recommend to teach anyone. Kept me interested 100% of the time which is very impressive as this does not happen often, if at all!"*

O. B. Network Rail

*"The best technical course I've been on!."*

L. W. Fujitsu Telecoms Europe

*"Very well thought out and structured course. Would recommend 100%. Lots of equipment, good quality."*

A.R. Unipart

*"Course content is interesting. Relevant to current systems and presented well."*

S.S-T. Arqiva

