

IT MANAGEMENT AND CYBER SECURITY | IMCS-033

Enterprise Network Design: LAN, WAN and SD-WAN

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Course content

Why Attend

Enterprise networks must connect offices, data centres, cloud services and remote users reliably and securely. Modern approaches such as SD-WAN are changing how wide area networks are designed and managed.

This Aractech course covers network design principles, campus LAN design, WAN technologies, SD-WAN architecture and benefits, cloud connectivity, redundancy, performance, security integration and network design documentation. Participants design a network for a multi-site organisation.

Course Methodology

- Design presentations
- Design workshop
- Case studies
- Vendor-neutral demonstrations
- Group reviews

Course Objectives

- Apply enterprise network design principles
- Design campus LAN architectures
- Compare WAN technologies
- Design SD-WAN solutions
- Integrate cloud connectivity and security
- Document and justify network designs

Target Audience

- Network engineers and architects

Course content

- Infrastructure managers
- IT managers
- Pre-sales engineers

Course outline

Detailed course outline

Day-by-day outline for Enterprise Network Design: LAN, WAN and SD-WAN.

Day 1 - Design Principles

- 09:00-09:30 | Requirements gathering
- 09:30-10:30 | Hierarchical design
- 10:30-11:00 | Availability
- 11:00-11:30 | Coffee break
- 11:30-12:00 | Scalability
- 12:00-13:00 | Security by design
- 13:00-14:00 | Exercise: Requirements analysis

Day 2 - Campus LAN

- 09:00-09:34 | Access, distribution and core
- 09:34-10:41 | VLAN design
- 10:41-11:00 | Wireless integration
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Wireless integration (continued)
- 11:45-12:19 | Redundancy
- 12:19-12:53 | Management
- 12:53-14:00 | Workshop: Campus design

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Day 3 - WAN Technologies

- 09:00-09:39 | WAN options
- 09:39-10:18 | MPLS
- 10:18-10:57 | Internet links
- 10:57-11:00 | Performance
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Performance (continued)
- 12:05-12:43 | Costs
- 12:43-14:00 | Exercise: WAN comparison

Day 4 - SD-WAN and Cloud

- 09:00-09:39 | SD-WAN architecture
- 09:39-10:18 | Policies
- 10:18-10:57 | Cloud connectivity
- 10:57-11:00 | Security integration
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Security integration (continued)
- 12:05-12:43 | Migration
- 12:43-14:00 | Case study: SD-WAN rollout

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Day 5 - Documentation and Operations

- 09:00-10:07 | Design documents
- 10:07-10:41 | Diagrams
- 10:41-11:00 | Monitoring
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Monitoring (continued)
- 11:45-12:19 | Change management
- 12:19-12:53 | Lifecycle
- 12:53-14:00 | Capstone: Multi-site network design

Seminar dates

Available seminar dates

Live dates and pricing for Enterprise Network Design: LAN, WAN and SD-WAN generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	Paris	Classroom	€3,825
21 - 25 December 2026	Frankfurt	Classroom	€1,875
18 - 22 January 2027	Dubai	Classroom	€1,845
15 - 19 February 2027	Amsterdam	Classroom	€2,830
15 - 19 March 2027	London	Classroom	€2,315
19 - 23 April 2027	Istanbul	Classroom	€1,978
17 - 21 May 2027	Vienna	Classroom	€3,225
21 - 25 June 2027	Barcelona	Classroom	€2,815
19 - 23 July 2027	Cape Town	Classroom	€1,625
16 - 20 August 2027	Frankfurt	Classroom	€1,875

Seminar dates

Available seminar dates

Live dates and pricing for Enterprise Network Design: LAN, WAN and SD-WAN generated from the course details page.

Date	Location	Format	Fee
20 - 24 September 2027	Geneva	Classroom	€4,315
18 - 22 October 2027	Amsterdam	Classroom	€2,830
15 - 19 November 2027	London	Classroom	€2,315
20 - 24 December 2027	Istanbul	Classroom	€1,978
2 - 6 November 2026	Online / Live	Online / Live	€1,815
21 - 25 December 2026	Online / Live	Online / Live	€1,815
18 - 22 January 2027	Online / Live	Online / Live	€1,815
15 - 19 February 2027	Online / Live	Online / Live	€1,815
15 - 19 March 2027	Online / Live	Online / Live	€1,815
19 - 23 April 2027	Online / Live	Online / Live	€1,815

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Date	Location	Format	Fee
17 - 21 May 2027	Online / Live	Online / Live	€1,815
21 - 25 June 2027	Online / Live	Online / Live	€1,815
19 - 23 July 2027	Online / Live	Online / Live	€1,815
16 - 20 August 2027	Online / Live	Online / Live	€1,815
20 - 24 September 2027	Online / Live	Online / Live	€1,815
18 - 22 October 2027	Online / Live	Online / Live	€1,815
15 - 19 November 2027	Online / Live	Online / Live	€1,815
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