



aractech

Global Learning for Operational Leaders

IT MANAGEMENT AND CYBER SECURITY | IMCS-024

Network Administration and Troubleshooting

Contact

+31 85 7444446
info@aractech.com
https://aractech.com

Address

Waarderweg 50, 2031PB Haarlem - Netherlands.

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Course content

Why Attend

Network problems affect every user and service. Network administrators need structured skills to configure, monitor and troubleshoot networks quickly and reliably.

This Aractech course covers network fundamentals, switching and routing, VLANs, IP addressing, wireless networks, network services, monitoring tools and systematic troubleshooting methods. Participants practise configuration and troubleshooting using lab scenarios.

Course Methodology

- Hands-on labs
- Demonstrations
- Troubleshooting scenarios
- Diagramming exercises
- Group discussions

Course Objectives

- Explain network fundamentals and protocols
- Configure switches, VLANs and routing
- Manage IP addressing and network services
- Administer wireless networks
- Monitor network performance
- Troubleshoot network problems systematically

Target Audience

- Network administrators
- IT support engineers

Course content

- Infrastructure technicians
- System administrators

Course outline

Detailed course outline

Day-by-day outline for Network Administration and Troubleshooting.

Day 1 - Networking Fundamentals

- 09:00-09:39 | Network models
- 09:39-10:18 | Ethernet
- 10:18-10:57 | IP addressing
- 10:57-11:00 | Subnetting
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Subnetting (continued)
- 12:05-12:43 | Network devices
- 12:43-14:00 | Lab: Subnetting exercise

Day 2 - Switching and Routing

- 09:00-09:39 | Switch configuration
- 09:39-10:18 | VLANs
- 10:18-10:57 | Routing basics
- 10:57-11:00 | Routing protocols overview
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Routing protocols overview (continued)
- 12:05-12:43 | Redundancy
- 12:43-14:00 | Lab: VLAN configuration

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Day 3 - Services and Wireless

- 09:00-09:39 | DNS and DHCP
- 09:39-10:18 | NAT
- 10:18-10:57 | Wireless networks
- 10:57-11:00 | Quality of service
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Quality of service (continued)
- 12:05-12:43 | Documentation
- 12:43-14:00 | Lab: Wireless setup

Day 4 - Monitoring

- 09:00-09:39 | Monitoring tools
- 09:39-10:18 | SNMP and flow data
- 10:18-10:57 | Performance baselines
- 10:57-11:00 | Alerts
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Alerts (continued)
- 12:05-12:43 | Capacity
- 12:43-14:00 | Exercise: Monitoring dashboard

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Day 5 - Troubleshooting

- 09:00-09:45 | Troubleshooting methodology
- 09:45-10:30 | Common issues
- 10:30-11:00 | Diagnostic tools
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Diagnostic tools (continued)
- 11:45-12:30 | Root cause
- 12:30-13:15 | Documentation
- 13:15-14:00 | Capstone: Troubleshooting challenge

Seminar dates

Available seminar dates

Live dates and pricing for Network Administration and Troubleshooting generated from the course details page.

Date	Location	Format	Fee
11 - 15 January 2027	Barcelona	Classroom	€2,815
8 - 12 February 2027	Geneva	Classroom	€4,315
8 - 12 March 2027	Rome	Classroom	€3,460
12 - 16 April 2027	Cape Town	Classroom	€1,625
10 - 14 May 2027	Amsterdam	Classroom	€2,830
14 - 18 June 2027	London	Classroom	€2,315
12 - 16 July 2027	Amsterdam	Classroom	€2,830
9 - 13 August 2027	Barcelona	Classroom	€2,815
13 - 17 September 2027	Geneva	Classroom	€4,315
11 - 15 October 2027	Rome	Classroom	€3,460

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