

M2 Systems Administration

Part of the CyberAgent Training Programme, more info at CyberAgent.eu

OBJECTIVES

- Manage, identify, analyse, assess, estimate, mitigate the cybersecurity-related risks of ICT infrastructures, systems and service.
- Manage network devices, operate on both Linux and Windows servers.
- Knowledge about Cloud and AI in the context of cybersecurity.

CHARACTERISTICS

Languages

Available in English, Finnish, Turkish, Norwegian, Lithuanian, Romanian, French, Polish, Spanish.

Duration & Workload

Live Training: 48 hours

Individual study: 77 hours



**FULLY ONLINE
OR BLENDED**



**3 ECTS
CREDITS**

WHAT YOU WILL LEARN



Learners will be competent to develop and implement strategic cybersecurity frameworks for system administration, leading projects and teams to enhance system hardening and availability, and making ethical decisions in maintaining robust cybersecurity practices across various administrative domains for SME workplaces.

TRAINING CONTENT 1/2



1

Operating system administration

Comprehensive coverage of fundamental system administration concepts across Windows and Linux environments.

2

Database system administration

Advanced system administration with emphasis on network services, security protocols, and database management.

3

Network administration

Comprehensive network fundamentals including network topologies, protocols, and infrastructure components from physical to application layers.

4

Cloud administration

Modern cloud computing concepts, virtualization technologies, and container orchestration platforms including Docker and Kubernetes.

5

Cyber-physical system administration

Securing and managing interconnected systems that bridge the digital and physical worlds, covering authentication protocols, encryption methods, and network attack vectors.

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TRAINING CONTENT 2/2



6

System hardening

Advanced security practices for strengthening IT infrastructure against threats, incorporating modern AI-powered tools for automation and threat detection.

7

Availability

Incident response, security operations center (SOC) management, and comprehensive threat analysis including web application vulnerabilities and malware investigation.

Assessment

Self-assessment: 40%

Final knowledge test: 60%

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