Macrosoft

Vzdelávanie s trvalým efektom

DOCUMENT

Course syllabus

CATEGORY

Windows Server, Linux courses

TRAINING FORMAT

In Bratislava or online with a lecturer

PRICE EXCL. VAT

740,00 €

PRICE INCL. VAT

910,20 €

including 23 % VAT

PDF SYLLABUS

Skilled Windows and Computer Network Administrator

Clear overview of course topics, training scope and key information.

Gain Windows skills at administrator level and at the same time discover how computer networks work. In this course, you will independently install and configure Windows. In addition to basic and advanced administrator tools, we will also cover hardware problems and network basics.

COURSE CONTENT

01

General Information About the Computer as a Machine

Introduction of computer components, external devices and internal computer parts (what they are used for, what types exist and what problems are related to them) BIOS/UEFI Config tool, what it is used for and when we use it as administrators Operating systems, their families and use in current practice

02

Installation of the Microsoft Windows Operating System

Introduction of different versions and types of the system Minimum installation requirements Installation wizard User accounts, local, Microsoft account, domain Safe mode and solving errors during installation

03

Settings - Overview of Selected Tools for Solving Specific Practical Situations

Control Panel Universal MMC console (use, adding modules) User accounts, User Account Control (UAC) Device Manager, adding a component (e.g. printer), driver installation options and related problems Task Manager

04

Windows Kernel and Related Options

System services Windows Registry DLL libraries DxDiag tool for Direct X Logon process System time Task Scheduler Command Prompt vs PowerShell

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05

File System

Types of hard disks and file systems Setting access rights, inheritance, allowing and denying access Defragmentation Integrity check Partitioning hard disk partitions Restoring to a previous state (restore points) Audit log, Event Viewer

06

Network Settings and Overview of a Computer Network

Network and Sharing Center Sharing a folder over the network Sharing a printer connected to a computer over the network Network card configuration and its protection Diagnosing internet connection problems Concepts of connecting computers within a local network - workgroup vs domain

07

Computer Networks

Basic concept of a computer network How a computer network works, prerequisites for local connection and connection to the internet IP address DNS DHCP devices in a network - router, firewall, switch, hub, WiFi terms: port, protocol, interface, MAC address basic network services: http, FTP, SSH, DNS, NTP, virtual private network Remote control of Windows (remote desktop and command line)

08

Basics of Windows Security

Attack vectors Measures at the network level (Firewall, ...) Measures at the operating system level Access passwords and their policies Group Policy Windows Defender and Firewall, commercial solutions

09

Conclusion

Final summary and discussion

This document serves as an informational overview of the course syllabus. Current dates, venue and availability are listed at Macrosoft.sk.

https://www.macrosoft.sk/en/courses/skilled-windows-network-administrator