

# Introduction to UNIX

Course code: UNIX1

The course participants acquaint themselves with the OS UNIX philosophy and with the syntax of commands. They will learn how to get online help and approximately 50 most common users' commands, including the text editing, commands for printing the files and basic operations with processes.

## What we teach you

The course participants acquaint themselves with the OS UNIX philosophy and with the syntax of commands. They will learn how to get online help and approximately 50 most common users' commands, including the text editing, commands for printing the files and basic operations with processes.

## Required skills

Basics of work at PC.

## Course outline

Introduction

Computer architecture and terminology

Functions of operating system

Features of OS UNIX

Structure of OS UNIX

Conception of SYS V and BSD UNIX

User's access to UNIX

Security of the system, user's authentication

Shell

Working in shell

Use of commands

Help, system documentations

File system

Files and directories, types of files

Navigation in file system

Work with ordinary files

Organization of files

Information about files

Looking for files and content

Managing of access to a file system

Concept of file system security

Security administration

Text editing

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# Introduction to UNIX

Editor vi overview  
Setting of vi editor

Work with other editors  
Print services  
Concept of print service  
Commands for printing the content of the files  
Print queue administration

Work with input and output

Input and output meaning  
Input and output re-routing  
Pipe and filters

Work with processes

Structure and lifecycle of processes  
Display of processes  
Handling the processes using the signals  
Planning of processes, postponed starting up of processes

Shell environment  
Overview of shell functions  
Adjustment of shell to a user

Remote access to UNIX

Concept of net environment  
Terminal services  
Access to a file system  
Security

Work with archives

Work with tar, gzip, compress  
Use of cpio

Reading of electronic mail

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# Introduction to UNIX

Concept of electronic mail

Programmes for terminal interface

Graphic applications

Graphic interface

Work in graphic interface

Remote work with graphic interface

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