

# Unix/Linux Essentials, Hands-on

Hands-on course of 2 days - 14h

Ref.: BUX - Price 2025: 1 590 (excl. taxes)

This training is clearly lab-oriented. It presents a chosen selection of essential Unix knowledge that will enable you to use a Unix system on its everyday tasks.

## HANDS-ON WORK

Students will be using networked workstations under Unix (AIX, Solaris, HP/UX and Linux) to perform the various labs.

## THE PROGRAMME

last updated: 06/2024

### 1) Hands-on the system

- Different Unix versions (AIX, HP\_UX, Solaris...).
- Login and logout.
- Structure of a Unix command.
- Using and customizing the desktop.
- Unix directories and file systems.
- Users and groups, file permissions.
- Essential commands to manage files and directories.
- How to use the on-line documentation.

### 2) Managing files, using text editors

- Essential commands to manage files.
- Physical and symbolic links.
- Additional commands to manage files and directories.
- Displaying disk usage.
- The vi editor.

### 3) Understanding and using shell

- Filtering.
- Redirecting.
- Executing programs.
- Environment and processes.
- Expanding commands.
- Writing shell-scripts.
- User environment ". profile".
- Additional commands.

### 4) Using and building tools, communicating

- Using regular expressions.
- Example : grep and the regular expressions.
- Essential tools.
- Using pipes.
- Using pipes to build higher level tools.
- Additional tools.
- Mail.

#### PREREQUISITES

The students should have a general knowledge of computers and systems.

#### TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

#### ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

#### TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

#### TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

#### ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@ORSYS.fr to review your request and its feasibility.

### 5) Describing multitasking

- Background execution.
- Tools to manage background and foreground processes.
- Sending signals and killing processes.
- Answering signals.

### 6) Reading and modifying a shell script

- Shell variables.
- Language instructions (if, for, while, ...).
- The test command.
- Simple shell script examples.
- Modifying a shell script.
- Interactive instructions in shell.

### 7) Using Unix on a network

- Remote connection (telnet, rlogin).
- Transferring files (ftp, rcp).
- Remote program execution (rsh).
- Remote program execution in a secure environment (ssh).
- Understanding security issues.
- Describing network terms (TCP/IP, NFS, NIS, DNS...).

## DATES

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### REMOTE CLASS

2025 : 07 août, 20 nov.