

# KAÏNA-COM

## TRAINING CATALOGUE

### Linux Essentials

**This course serves as a detailed and wide introduction to Linux including hands-on work using the operating system**



**Nos locaux**  
KAÏNA-COM France  
LE CARRÉ HAUSSMANN II  
6 Allée de la Connaissance  
77 127 Lieusaint



**Contact**  
+33(0)9 50 20 91 64



**E-mail**  
info@kaina-com.fr



**Site Internet**  
www.kaina-com.fr

## KLI004 – Linux Essentials

---

**Reference** KLI004

---

**Experience**

- Beginner
- Intermediate
- Advanced

---

**Duration** Training Program:  
• 4 days

---

**Training Method**

- I: i-learning, individual training (web-based training)
- V: v-learning, virtual class
- C: c-learning, classroom training

**KAÏNA-COM**  
LE CARRÉ HAUSSMANN II,  
6 Allée de la Connaissance  
77127 Lieusaint - France

---

**Price** 2.707,50 € HT

---

**Prerequisite** Some computer knowledge and experience.

---

**Audience** Anyone interested in using Linux and wanting a detailed introduction.

---

*Continued on next page*



## KLI004 – Linux Essentials, Continued

---

### Objective

Linux is an open source operating system based on Unix. Its popularity is growing, and it is offering more and more to its users. This course serves as a detailed and wide introduction to Linux including hands-on work using the operating system. The participant learns about Linux and the connection between Linux and Unix. Hands-on work includes logging in and out, changing passwords, using commands, files, directories, and processes, editing files, writing simple shell scripts and customizing the user environment.

---

*Continued on next page*



**Nos locaux**  
KAINA-COM France  
LE CARRÉ HAUSSMANN II  
6 Allée de la Connaissance  
77 127 Lieusaint



**Contact**  
+33(0)9 50 20 91 64



**E-mail**  
info@kaina-com.fr



**Site Internet**  
www.kaina-com.fr

## KLI004 – Linux Essentials, Continued

### Course Contents

Course Contents :

**Table 1: KLI004 - Course Contents**

Chapter	Description
<b>Introduction</b>	<ul style="list-style-type: none"> <li>• Unix and Linux, a brief history</li> <li>• Operating systems, UNIX flavours, UNIX features</li> <li>• Unix market, OSS, GNU GPL, philosophy, distribution</li> <li>• Linux features</li> <li>• Linux general architecture, the Linux kernel</li> </ul>
<b>Getting Started</b>	<ul style="list-style-type: none"> <li>• Logging in</li> <li>• Changing passwords</li> <li>• Logging out</li> <li>• Shells</li> <li>• Command line, file name completion</li> <li>• Basic commands (whoami, date, uname, hostname)</li> <li>• On-line help and documentation</li> </ul>
<b>Linux Basics</b>	<ul style="list-style-type: none"> <li>• Files and Directories, Pathnames</li> <li>• Directory navigation, the 'home' directory</li> <li>• Files manipulating commands</li> <li>• Directory manipulating commands</li> <li>• Hidden files</li> <li>• Finding files (grep, find, locate, whereis)</li> <li>• Piping and I/O redirection</li> <li>• Wildcard patterns</li> <li>• Basic utilities (sort, wc, head, tail...)</li> </ul>

*Continued on next page*



## KLI004 – Linux Essentials, Continued

### Course Contents, continued

Chapter	Description
<b>Linux File-system</b>	<ul style="list-style-type: none"> <li>• File system concepts, inodes</li> <li>• File system layout, FHS</li> <li>• Hard and symbolic links</li> <li>• File-system utilities (mount, du, df, ...)</li> <li>• Archiving (tar, gzip)</li> </ul>
<b>Text editors</b>	<ul style="list-style-type: none"> <li>• vim</li> <li>• gedit</li> </ul>
<b>Users &amp; Groups</b>	<ul style="list-style-type: none"> <li>• Users and groups concept</li> <li>• The super-user (root)</li> <li>• Assuming root privileges</li> <li>• Users &amp; groups administration</li> </ul>
<b>Permissions</b>	<ul style="list-style-type: none"> <li>• Theory</li> <li>• ownership</li> <li>• Setting permissions (chmod, chown...)</li> </ul>
<b>Process Control</b>	<ul style="list-style-type: none"> <li>• ps, top</li> <li>• Background processes, priorities</li> <li>• nice, renice</li> <li>• Signals, kill</li> </ul>
<b>The Bash Shell</b>	<ul style="list-style-type: none"> <li>• Command history</li> <li>• Environmental variables</li> <li>• PATH</li> <li>• Customizing the prompt</li> <li>• profile and other startup files</li> <li>• aliases</li> <li>• Basic shell scripts</li> </ul>

*Continued on next page*



## KLI004 – Linux Essentials, Continued

---

### Course Contents, continued

Chapter	Description
<b>Basic Administration</b>	<ul style="list-style-type: none"><li>• Rebooting and shutting down, runlevels</li><li>• Software packages, apt-get</li><li>• Networking basics, ifconfig</li><li>• Network file-system (nfs)</li></ul>
<b>Working Remotely</b>	<ul style="list-style-type: none"><li>• SSH</li><li>• ftp</li></ul>
<b>Exercises</b>	<ul style="list-style-type: none"><li>• Exercises</li></ul>
<b>The End</b>	<ul style="list-style-type: none"><li>• Summary</li><li>• Q&amp;A</li><li>• Evaluation</li></ul>

---

