

LONDON CAPITAL COMPUTER COLLEGE

Certificate in Unix (188) – Introduction to Linux

Prerequisites: Knowledge in Windows operating	Corequisites: A pass or higher in Certificate in			
system.	Networking or equivalence.			
Aim: The program combines theory and practical applications to enable candidates learn skills that are immediately applicable in the workplace. The course addresses management of the Linux file system and utilities; file editing; file permissions; pipes, redirection, and filters; text handling utilities; mail				
facility; bash shell, variables, and basic scripts; process management; and shell programming basics. Manipulating and maintaining files within the UNIX file system; creating and editing text files using				
the vi and ed editors; using pipes, redirection, and fi				
electronic mail; writing and debugging shell scripts; submitting and executing processes.				
Required Materials: Recommended Learning Resources.	Supplementary Materials: Lecture notes and tutor extra reading recommendations.			
Special Requirements: The course requires a combination of lectures, demonstrations, discussions, and hands-on labs.				
Major Learning Outcomes:	Assess	Assessment Criteria:		
1 What is Linux, how did it come into	1.1	Define Linux		
existence, advantages and disadvantages, what	1.2	Describe the advantages and		
does the future hold for Linux and who should use		disadvantages of Linux		
it.	1.3	Outline the Linux flavours		
	1.4	Discuss the different Linux distributions.		
2 Describe how to connect to the Linux system.	2.1	Describe the logging in and logging out process		
	2.2	Define basic Linux commands		
	2.3	Identify how to get help in Linux		
	2.4	Be able to change password		
3 Discuss the files and directories on a Linux system. Analyse how the use of predefined	3.1	Analyse the structure of the Linux commands		
paths allow users to find, read and manipulate	3.2	Analyse the rules of file names		
files. Define the Linux command structure.	3.3	Describe the directory hierarchy		
	3.4	Evaluate file and directory permissions		
	3.5	Be able to display contents of a directory		
	3.6	Demonstrate using wildcards		
	3.7	Be able to create and remove a directory		
	3.8	Be able to copy and link files and directories		
	3.9	Be able to interrupt a runaway program		
	3.10	Describe the overview of the Linux file system		
	3.11	Identify why file partitioning is important		
	3.12	Describe Linux layout and types		
	3.13	Define mount point		
	3.14	Describe the Linux path		
	3.15	Describe absolute and relative paths		
	3.16	Describe Linux important files and		
		directories		
	3.17	Define Linux configuration files		
	3.18	Describe how Linux handles devices		
	3.19	Describe Linux variable files		
	3.20	Be able to search files by content and		

		attribute
	3.21	Describe how files are manipulated in Linux
	3.22	Describe Linux files security system
4 Describe how to manage processes, boot and shutdown procedures, postponing tasks and	4.1	Differentiate multi-user and multi- tasking
repetitive tasks.	4.2	Analyse the different Linux processes
repetitive tasks.	4.3	Describe process
	7.5	characteristics/attributes
	4.4	Describe Linux boot, initialization and
		shutdown process
	4.5	Describe the initialization run levels
	4.6	Describe how processes are managed
5 Describe the standard input, output and	5.1	
error and how are these features used from the	5.2	Describe input/output in Unix
command line.	5.3	Analyse the redirection operators
	5.4	Describe filters in Unix
6 Outline the importance of working with	6.1	Describe a text editor
an editor, discussion of the most common editors.	6.2	Identify the basic <i>vi</i> editor operations
	6.3	Explore how to start and quite <i>vi</i>
	6.4	Be able to insert, delete and search/replace text
	6.5	Be able to move cursor
	6.6	Review the Linux Office
	0.0	Review the Emux Office
7 Understand how to configuring your	7.1	Describe how to create a home directory
graphical, text and audio environment, settings for	7.2	Describe shell setup files
the non-native English speaking Linux user, tips	7.3	Define shell scripts
for adding extra software.	7.4	Analyse the Linux graphical
		environment
8 Be able to convert files to a printable	8.1	Describe the Linux print service
format, getting them out of the printer and	8.2	Describe print formatting tools
troubleshoot print problems.	8.3	Identify how to troubleshoot print
troubleshoot print problems.		problems
		1
9 Be able to prepare data for backup.	9.1	Describe the process of archiving data
Discuss various backup tools and how to conduct	9.2	Describe the process of backing up data
a remote backup.	9.3	Define remote data backup
10 Provide an overview of Linux	10.1	Describe networking protocols supported
networking tools and user applications, with a	10.2	in Linux
short discussion of the underlying service daemon	10.2	Identify network configuration files
programs and secure networking.	10.3	Outline internet/intranet applications
	10.4	Describe security services in Linux
	1	

Recommended Learning Resources: Introduction to Linux

	recommended Bearing Resources, and oddenou to Binds		
	Introduction to Linux by Machtelt Garrels. ISBN-10: 1596821124 Linux Lin		
Text Books	 Introduction to Unix and Linux by John Muster. ISBN-10: 0072226951 Introduction to Unix/Linux with DVD by Christopher Diaz. ISBN-10: 		
	8131502465		
Study Manuals	DCF and and a decide		
	BCE produced study packs		
CD ROM			
(%)	Power-point slides		
Software			
	Linux		