Level 3 Unix operating system 3 (7540-387)

Assignment guide for Candidates

Assignment A

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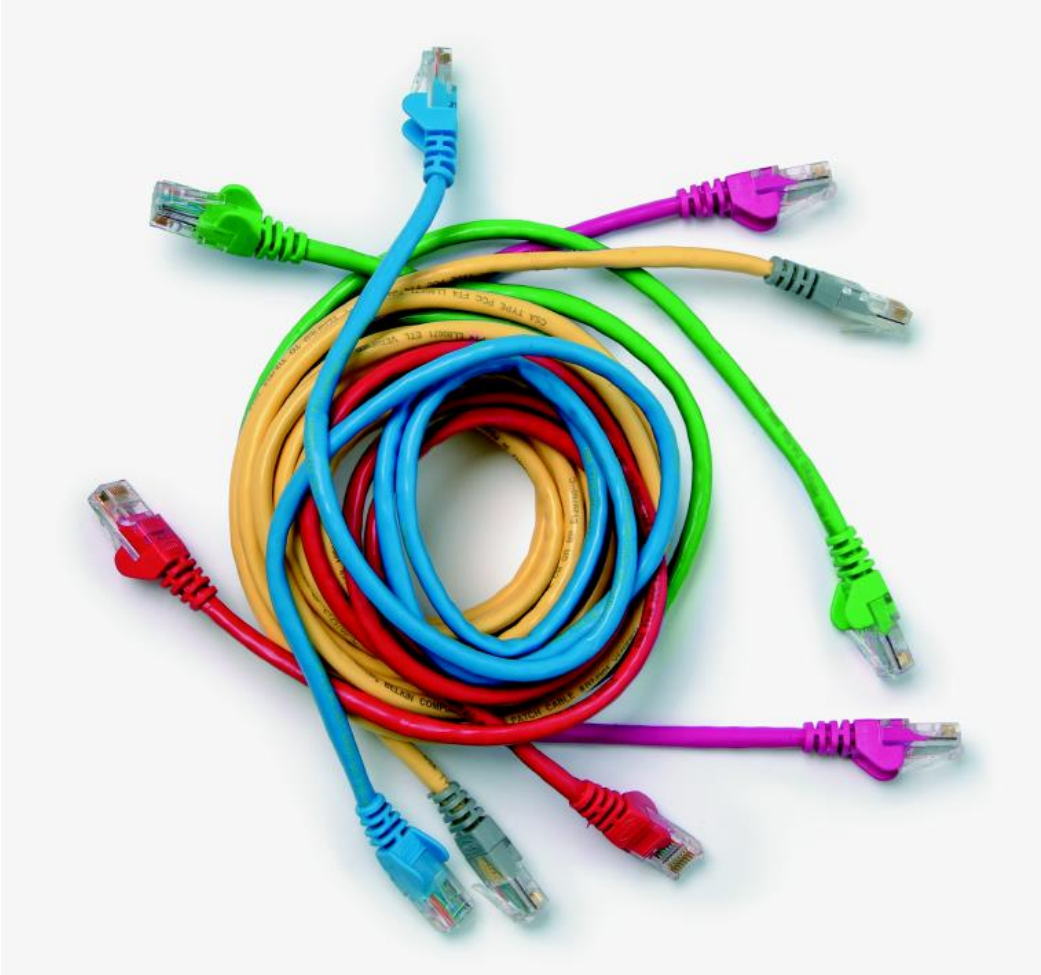

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City & Guilds
1 Giltspur Street
London EC1A 9DD
T +44 (0)844 543 0000 (Centres) **www.cityandguilds.com**
T +44 (0)844 543 0033 (Learners) **learnersupport@cityandguilds.com**

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Level 3 Unix operating system 3 (7540-387)
Assignment A
Introduction – Information for Candidates

About this document
This assignment comprises all of the assessment for Level 3 Unix operating system 3 (7540-387)

Health and safety
You are asked to consider the importance of safe working practices at all times.

You are responsible for maintaining the safety of others as well as your own. Anyone behaving in an unsafe fashion will be stopped and a suitable warning given. You will **not** be allowed to continue with an assignment if you compromise any of the Health and Safety requirements. This may seem rather strict but, apart from the potentially unpleasant consequences, you must acquire the habits required for the workplace.

Time allowance
The recommended time allowance for this assignment is **2 hours**.

Level 3 Unix operating system 3 (7540-387)
Candidate Instructions

Time allowance:

Assignment set up:

This assignment is made up of **two** tasks

- Task A – Directory and file set-up
- Task B – Create shell scripts

Scenario

You work as a Software Developer for Software Creations, a company that designs and creates software solutions for clients.

You have been asked to complete some tasks to help colleagues with their work. Over time, disk space tends to become cluttered with out-of-date unused files. Several employees have mentioned that they have to do the same tasks repetitively and it would be helpful to have shell scripts written to perform some of these tasks. Your manager has identified two shell scripts that are needed and has asked you to write the shell scripts to do the following:

- make any shell script file executable – exsh
- allow unwanted files to be deleted – tidy

Read all of the instructions carefully and complete the tasks in the order given.

Task A – Directory and file set up

1 Log in to the system.

2 Make **two** new directories called **trytidy** and **backup**.

3 Create **two** sub-directories named **dir1** and **dir2** in the directory **trytidy**.

4 Use an editor to create **five** text files as follows:

- text1 which contains five lines of text – text1, Line 1, Line 2, Line 3, Line 4
- text2 which contains five lines of text – text2, Line 1, Line 2, Line 3, Line 4
- text3 which contains 12 lines of text – text3, Line 1, Line 2, Line 3 … Line 11
- text4 which contains 15 lines of text – text4, Line 1, Line2, Line 3 … Line 14
- text5 which contains 20 lines of text – text5, Line 1, Line 2, Line 3 … Line 19

Save the files in the directory **trytidy**.

Task B – Create shell scripts

1 Use an editor to create a shell script to make any shell script executable. The shell script is to be passed one parameter – the name of the file to be made executable. Save the script as **exsh** in the directory **trytidy**.

2 Run the script **exsh** with the parameter as the **exsh** file to make the script **exsh** executable.

3 Use the **man** command to find out about the **echo** command.

4 Use an editor to create a shell script named **tidy** to perform the following operations:

for each file in the current directory that is not a directory file, display in any order:

- the first ten lines of the file
- the file size
- the date when the file was last modified
- the filename

display the prompt: Do you want to delete file? (y-yes, q-quit)
if the user enters the character q
exit the script with no further action
if the user enters the character y
delete the file
otherwise for all other user responses
no action to be taken
next file

5 Save the shell script **tidy** in the directory **trytidy**.

6 The shell script **tidy** must contain **two** comment lines which contain the name of the script and your name.

7 Run the shell script **exsh** to make the shell script **tidy** executable.

8 Copy the contents of the directory **trytidy** to the directory **backup**.

9 Test the shell script **tidy** and resolve any errors.

10 Print a copy of the shell script **tidy**.

11 Log off the system.

When you have finished working:

- Sign each document above your name and label all removable storage media with your name.
- Hand all paperwork and removable storage media to your assessor.

If the assignment is taken over more than one period, all paperwork and removable media must be returned to the test supervisor at the end of each sitting.

End of assignment

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1 Giltspur Street
London
EC1A 9DD
T +44 (0)844 543 0000 (Centres)
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