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# **LCE406 - Training Evaluation and Validation**

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## **Course Materials**

Access to the course materials, LABS and tests requires a per trainee subscription to our LMS on the Internet.

You have been given a **free** 365 day subscription to your Course Materials on our LMS.

## **Reminder of the Training Program**

- **LCE400 - CentOS 8 Linux (RHEL 8 / Oracle Linux 8) - Fundamentals**

- Prerequisites
  - Hardware

- Software
- Internet
- Using our infrastructure
- Training Program
- Skills Assessment

- **LCE401 - File Hierarchy System**

- Linux File Hierarchy System
- File Types
- The mount Command
- The /etc/fstab file
  - Understanding the /etc/fstab file
    - Mount Options
- The umount Command
- Unix File Systems
  - Superblock
  - Inodes
  - Data Blocks
  - Hard (Physical) Links
  - Soft (Symbolic) Links

- **LCE402 - The Visual Editor**

- Presentation
- LAB #1 - Creating, Opening and Closing files with VI
  - 1.1 - Commands
  - 1.2 - Creating a new file with VI
  - 1.3 - Opening a file in read-only mode using view
  - 1.4 - Opening a file in read-write mode using VI
- LAB #2 - The set Command
  - 2.1 - Commands
  - 2.2 - Turning on line numbering using set
- LAB #3 - Moving around within the file
  - 3.1 - Commands
- LAB #4 - Inserting Text
  - 4.1 - Commands

- 4.2 - Inserting text
- LAB #5 - Searching for Text
  - 5.1 - Commands
  - 5.2 - Searching for and replacing text
- LAB #6 - Deleting Text
  - 6.1 - Commands
  - 6.2 - Deleting lines
- LAB #7 - Copy, Cut and Paste
  - 7.1 - Commands
  - 7.2 - Copying, Cutting and pasting text
- LAB #8 - Configuring a Personalised Interface

- **LCE403 - Help and Documentation**

- Help on external commands
- Help on built-in commands
- The man command
  - Command Line Switches
- The apropos command
  - Command Line Switches
- The makewhatis and whatis Commands under RHEL/CentOS 6
  - Command Line Switches
- The mandb and whatis commands with RHEL/CentOS 7
  - Command Line Switches
- The info command
  - Command Line Switches

- **LCE404 - Basic Shell Commands and Text Manipulation Tools**

- LAB #1 - Use of Basic Shell Commands
  - 1.1 - The stty Command
  - 1.2 - The date command
  - 1.3 - The who Command
  - 1.4 - The df Command
  - 1.5 - The free Command
  - 1.6 - The whoami Command
  - 1.7 - The pwd Command

- 1.8 - The cd Command
- 1.9 - The ls Command
- 1.10 - The lsof Command
- 1.11 - The touch Command
- 1.12 - The echo Command
- 1.13 - The cp Command
- 1.14 - The file Command
- 1.15 - The cat Command
- 1.16 - The mv Command
- 1.17 - The mkdir Command
- 1.18 - The rmdir Command
- 1.19 - The rm Command
- 1.20 - The sort Command
- 1.21 - The more Command
- 1.22 - The less Command
- 1.23 - The find Command
- 1.24 - The su Command
- 1.25 - The updatedb and locate Commands
- 1.26 - The whereis Command
- 1.27 - The which Command
- 1.28 - The uptime Command
- 1.29 - The w Command
- 1.30 - The uname Command
- 1.31 - The du Command
- 1.32 - The clear Command
- 1.33 - The exit Command
- 1.34 - The logout Command
- 1.35 - The sleep Command
- 1.36 - The wall Command
- 1.37 - The seq Command
- 1.38 - The screen Command
- LAB #2 - Switches and Arguments
- LAB #3 - Regular Expressions
  - BREs

- EREs
- Manipulating Text Files
  - Text-search Utilities
    - The grep Command
    - The egrep Command
    - The fgrep Command
    - LAB #4 - Using grep, egrep and fgrep
  - The Stream EDitor SED
    - LAB #5 - Using sed
  - The Text Processor AWK
    - Presentation
    - Field Separation
    - Conditions
      - A regular expression applied to a record
      - A regular expression applied to a field
      - Comparisons
      - Logical Operators
      - Built-in Variables
    - Awk Scripts
    - The printf function
    - Control Statements
      - if
      - for
      - while
      - do-while
    - LAB #3 - Using awk
  - LAB 7 - Other Useful Commands
    - 7.1 - The expand Command
    - 7.2 - The unexpand Command
    - 7.3 - The cut Command
    - 7.4 - The uniq Command
    - 7.5 - The tr Command
    - 7.6 - The paste Command
    - 7.7 - The split Command

- 7.8 - The diff Command
- 7.9 - The cmp Command
- 7.10 - The patch Command
- 7.11 - The strings Command
- 7.12 - The comm Command
- 7.13 - The head Command
- 7.14 - The tail Command
- LAB #8 - Use the grep, tr and cut commands to extract your IPv4 address from the output of ifconfig
- LAB #9 - Use the grep, awk and sed commands to extract your IPv4 address from the output of ip

- **LCE405 -Command Line Interface**

- Contents
- The Shell
- /bin/bash
  - Internal And External Commands
  - Aliases
  - The Prompt
  - The history Command
  - The TAB key
  - Metacharacters
  - Protecting Metacharacters
  - Exit Status
  - Redirections
  - Pipes
  - Command Substitution
  - Conditional Command Execution
- Environment Variables
  - Principal Variables
  - Internationalisation and Localisation
  - Special Variables
  - The env Command
- Bash Shell Options
  - noclobber
  - noglob

- nounset
- Basic Shell Scripting
  - Execution
  - The read command
  - The test Command
  - The [expression](#) Command
  - Shell Operators
  - The expr Command
  - The let Command
  - Control Structures
  - Loops
  - Start-up Scripts
  - LAB #1 - Start-up Scripts
- **LCE406 - Training Validation**
  - Course Materials
  - Reminder of the Training Program
    - Day #1
    - Day #2
  - Training Evaluation
  - Exam - Acquired knowledge

## Training Evaluation

Please complete and submit the training evaluation form.

## Exam - Acquired knowledge

Please take the final examination.

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