PURPLE GRIFFON
The IT Service Management Training & Consultancy Specialists

Course Title: Introduction To Linux	**Course Duration**: 4.0 Days
Exam: Included	**Exam Type**: Proctored Exam
Qualification: Introduction To Linux Certificate	

Course Syllabus

Our Introduction To Linux training course contains the following Modules:

Module 1: Introducing Linux

- The UNIX heritage
- Linux inception
- Linux kernel and GNU tools

Module 2: Accessing the System

The GNOME desktop

- Applying system settings
- Customising favourites
- Personalising the terminal window

Starting at the command line

- Switching to console logins
- Performing an SSH login
- Structuring commands

Module 3: Managing Files and Directories

Naming files and directories

- Contrasting full and relative pathnames
- Unravelling the file system hierarchy
- Handling files **cp** and **mv**

Organising files under directories

- Making and navigating directories
- Listing attributes with **ls**

Working with Linux files

- Accelerating command line usage with Bash wildcards
- Scrolling through files with GNU **less**
- Comparing files with **diff**

Module 4: Controlling Access to Linux Resources

Defining access rights to files

- Identifying multiple users and groups
- Adjusting access permissions: **chmod**

Collaborating via group membership

- Joining secondary groups
- Inheriting and changing group ownership

Adopting multiple roles

- Switching identity
- Changing passwords
- Raising privilege with **su**, **sudo** and **setuid**

Searching the system

- Locating files with **find**
- Finding pathnames with **locate**

Manipulating streams

- Matching lines with GNU **grep**
- Selecting lines and fields: **head**, **tail**, **gawk** and **cut**
- Redirection and pipelines

Editing files and streams

- Automating stream edits with **sed**
- Creating and modifying files: **vim**, **gedit**

Module 5: Leveraging Bash Shell Features

Customising Bash behaviour

- Setting options: **noclobber** and **ignoreeof**
- Assigning to built-in shell variables

Initialising context

- Exporting variables to the environment
- Extending login and start-up scripts

Enhancing interactivity

- Retrieving and reusing previous commands
- Exploiting file name completion shortcuts

Module 6: Automating Tasks with Shell Scripts

Invoking shell scripts

- Taking **bash** input from a file
- Running scripts using **source**

Testing and controlling execution

- Checking exit status with **if**
- Verifying file attributes with conditionals

Module 7: Executing Jobs and Processes

Monitoring processes with ps and top

- Launching multiple jobs
- Signalling with **kill**

Archiving and retrieving data

- Compressing with **bzip** and **gzip**
- Creating **tar** archives

Course Overview

Our four-day Introduction To Linux training course is designed to provide beginners with the fundamental knowledge and skills necessary to understand and work with the Linux operating system. Our goal is to bring greater efficiency to your IT infrastructure by learning to employ the standardised and finely tuned processes of the Linux operating system in your enterprise environment. This course will help you gain the foundational knowledge and skills to administer and support your Linux OS, and learn to control permissions, process data, and use shell scripts to perform administrative tasks.

- Basic computer knowledge and familiarity operating a computer system
- This course uses Red Hat Enterprise Linux
- Concepts taught are applicable to all Linux distributions

Course Learning Outcomes

Our Introduction To Linux training course will teach you to become proficient in the following:

- Administer and support Linux in your environment
- Manage and automate GNU open-source tools
- Create, edit, and search files and directories
- Connect to network services
- Run shell scripts for automation

Audience

Our Introduction To Linux training course will benefit several individuals and organisations including but not limited to:

- Beginners
- Students and Academics
- IT Professionals
- Developers
- Open-Source Enthusiasts
- Technology Enthusiasts
- Entrepreneurs and Small Business Owners
- Anyone interested in expanding their knowledge of operating systems, improving their technical skills, or pursuing a career in the technology industry.

Entry-Level Requirements

Our Introduction To Linux training course has no entry-level requirements.

Recommended Reading

There is no recommeneded reading for our Introduction To Linux training course.

What's Included

Our Introduction To Linux training course contains the following:

- 4-day instructor-led training course
- After-course instructor coaching benefit
- After-course computing sandbox included
- Learning Tree end-of-course exam included
- Pre-reading
- Course Manual
- Quizzes
- Exercises

Exam Information

Introduction To Linux Exam:

- Format: Multiple Choice
- Questions: 40
- Pass Mark: 70%

What's Next

Attendees may enjoy our two-day BCS DevOps Foundation training course

Our two-day BCS DevOps Foundation training course is a great starting point for an individual or organisation wishing to embark upon the DevOps journey.

A core understanding of fundamental DevOps values, practices and techniques is essential learning, as you move towards improved workflows and faster deployments.

Our BCS DevOps Foundation training course promotes framework-agnostic learning, and core DevOps values will be at the heart of all discussions, citing specific textbook examples to support these values.

Additional Information

Our Introduction To Linux training course offers several benefits to individuals and organisations including but not limited to:

- **Career Opportunities**: Linux is widely used in the IT industry, and having Linux skills can open up a wide range of career opportunities.

- **Strong Foundation in Operating Systems**: Linux provides a solid foundation for understanding operating systems.
- **Cost-Effective Solutions**: Linux is known for its cost-effectiveness, as it is an open-source operating system.
- **Flexibility and Customisation**: Linux offers a high level of flexibility and customisation allowing individuals to tailor the operating system to suit their specific needs, configure services and applications, and build custom solutions.
- **Open-Source Community and Resources**: Linux has a vibrant open-source community that provides extensive documentation, forums, and resources for learning and troubleshooting.
- **Improved Problem-Solving Skills**: Linux often requires troubleshooting and problem-solving, which can enhance individuals' critical thinking and analytical skills.
- **Compatibility with Cloud and DevOps**: Linux is widely used in cloud computing and DevOps environments.
- **Enhanced Security Knowledge**: Linux is renowned for its robust security features.
- **Personal and Professional Growth**: Learning Linux can lead to personal and professional growth.
- **Contribution to the Open-Source Community**: Linux is built on the principles of open-source collaboration.