Certified Linux Administrator 02
(including Practical and Written Test)

Duration: 3 days

WHO SHOULD ATTEND:

The course is for Linux administrators who wish to prepare for the Certified Linux Administrator 02 and Linux Professional Institute Certificate (LPIC) Level 1. This programme concentrates on preparation of the certification rather than practical aspect.

System administrators intending to install, configure and maintain Linux servers will benefit from this course.

PRE-REQUISITES:

- Pegawai Teknologi Maklumat (PTM)/skim F or minimum of 6 month relevant working experience
- Have attended the following compulsory trainings:
  - CLA 02 training
- Preferably to have also undergone the following trainings:
  - Linux Fundamentals – Usage of commonly used Linux commands.
  - Linux Network Administration - Practical Linux Installation for Networking, user management and software management
- Can perform basic network installation on Linux
- Know basic Unix/Linux commands to manage networking for Linux
- Can perform system customization for Linux

COURSE OUTLINE:

<u>DAY 1</u>

1. Network Configuration
   - Configuring static IP address

- Using utilities to manage LAN connections.
- Setting up Clientside DNS
- Running DNS queries/lookups with dig.
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- Using simple TCP/IP utilities to troubleshoot connection

2. Shell Environment
   - Introduction to shell environment
   - Modifying/Adding shell environments
   - Using command substitution
   - Simple CLI commands

3. Simple Shell Scripting
   - Introduction to simple BASH shell scripts
   - Conditional scripting

4. Remote administration with OpenSSH
   - Introduction to OpenSSH
   - Setup and configure an OpenSSH server
   - Securing an OpenSSH server

DAY 2

5. Apache HTTPD
   - Introduction to Apache HTTPD Server
   - Setup an configure a simple Apache HTTPD server
   - Configure an Apache HTTPD Virtual Server

6. Samba
   - Introduction to Samba Server
   - Setup and configure a Samab server to serve files
   - Connecting to a Samba shared folder via the CLI and GUI.
   - Setting a permanent mount to a Samba share.

7. Scheduling Jobs
   - Introduction to the crond daemon
   - Configure and setup a crond instance
   - Managing the crond daemon.

8. Timing Protocol
   - Introduction to NTP
   - Setup and Managing an NTP Server

9. Basic Security Management
   - Understanding the file/folder permissions mechanisms in Linux
   - Introduction to TCPWrappers
   - Managing system daemons/services.
   - Introduction to using the GPG (GNU Privacy Guard)

10. Mail Server
   - Introduction to Linux Mail Server
   - Installing Postfix MTA
   - Configuring Postfix

DAY 3

1. CLA02 – Certification Test Paper A – Practical Lab Work
2. CLA02 – Certification Test Paper B – Multiple Choice Questions