

CTS -2321 Learning Outcomes

L1: Understand the planning of an operating system implementation

You will be able to Identify strengths and weaknesses of different Linux distributions and other operating systems

You will be able to Understand Linux kernel and module version numbering

You will be able to Determine appropriate partition schemes, settings and network configuration and protocols

L2: Install the operating system

You will be able to Partition and configure file systems

You will be able to Determine the appropriate method of installation

You will be able to Explain when and why the kernel will need to be recompiled

You will be able to Install and uninstall applications

L3: Configure the operating system

You will be able to Configure system settings for the Xwindow system, server services, network services and Internet services using VNC

You will be able to Identify when swap space needs to be increased

You will be able to Install and configure add-in hardware

You will be able to Identify the purpose of and edit configuration files

You will be able to Load, remove and edit list modules

You will be able to Configure access rights and file permissions

L4: Configure and perform administration tasks

You will be able to Create, modify and delete users and groups

You will be able to Manage, mount and navigate the file systems

You will be able to Use common shell commands and expressions

You will be able to Perform tasks using the system administrator account

You will be able to Connect to and manage remote systems

You will be able to Stop, start and restart services

You will be able to Create, edit and save files using the visual editor

You will be able to Create, extract and edit file archives

You will be able to Program basic shell scripts

L5: Understand and perform system maintenance

You will be able to Verify user and root cron jobs and understand the function of cron

You will be able to Identify core dumps and remove or forward as appropriate

You will be able to Download and install patches and updates

You will be able to Identify, execute and kill processes

You will be able to Monitor system log files

You will be able to Perform and verify security best practices

L6: Perform system troubleshooting

You will be able to Use troubleshooting commands, tools and utilities

You will be able to Edit configuration files based on symptoms of a problem

You will be able to Recognize common Linux errors including boot, login, backup and restore errors

You will be able to Identify application failure on a server

L7: Understand hardware identification, installation and maintenance

You will be able to Identify basic terms, concepts and functions of system hardware components

You will be able to Identify proper procedures for diagnosing and troubleshooting system hardware and common system problems