

UNIX(R) ESSENTIALS FEATURING THE SOLARIS(TM)10 OPERATING SYSTEM

1. NAME : Unix(R) Essentials Featuring The Solaris(Tm) 10 Operating System.
2. SECTOR : **Information & Communication technology (ICT)**
3. CODE : **ICT 221**
4. Entry Qualification : SSC pass & having completed the course on Computer fundamentals,MS Office, Internet & soft skills
5. Terminal Competency: After Completion of the training participants would be:
 - Use command-line features , help resources ,
 - Manage and view files and directories ,
 - Change the directory contents .
 - Create and modify files and use basic file permissions.
 - Create ACLs Control the user work environment
 - Use commands within the shell.
 - Perform basic process and job control ,
 - Archive files and create archives
 - Compress, view, uncompress files
 - Perform remote file transfers.
6. Duration : 300hrs
7. Course Content :

Practical Competencies	Underpinning Knowledge (Theory)
Module 1 - Using the Desktop in the Solaris 10 Operating System Describe the Solaris OS Describe the hardware components of a computer Describe the Solaris OS components Describe the SunOS(TM) operating system Installation of SunOS™ Operating system Log in to the system Use the desktop environment	Introduction to Solaris 10 Operating System Command-Line Features and Online Help Resources Viewing Directories and Files. Memory Management. Hierarchical structure of Files and Directories Fundamentals of vi editor. Working with Shell Editor .
Module 2 - Using Command-Line Features and Online Help Resources Construct and execute commands from the command line Use online documentation.	Apply privileges(File Permissions). Describe ACLs Describe Solaris OS processes Advanced Shell programming (Shell Scripts). Resource management in network system.
Module 3 - Viewing Directories and Files Work with directories, files, Print files	

<p>Module 4 - Changing the Solaris OS Directory Contents Copy files and directories Move and rename files and directories Create files and directories Remove files and directories Use symbolic links</p>	Performing Remote Connections and File Transfers.
<p>Module 5 - Using the vi Editor Describe the fundamentals of the vi editor Modify files by using the vi editor</p>	
<p>Module 6 - Using Commands Within the Shell Use shell metacharacters Describe the Korn shell variables Display the command history Redirect commands Describe the command-line interpreter Work with user initialization files</p>	
<p>Module 7 - Using Basic File Permissions View file and directory permissions Determine file or directory access Change the permissions Modify the default permissions</p>	
<p>Module 8 - Configure Access Control Lists (ACLs) Configure ACLs by using the command line Configure ACLs using the File Manager graphical user interface (GUI)</p>	
<p>Module 9 - Searching Files and Directories Search for content in files Search for files and directories</p>	
<p>Module 10 - Performing Basic Process Control Describe Solaris OS processes View a process Search for a specific process Send a signal to a process</p>	
<p>Module 11 - Advanced Shell Functionality Manage jobs in the Korn shell Describe the Korn shell alias utility Use Korn shell functions Set Korn shell options</p>	

Module 12 - Reading Shell Scripts

Describe shell scripts

Run shell scripts

Pass values to shell scripts

Use the test command

Perform conditional commands

Module 13 – Creating Archives

Archive files

Compress and archive files by using the jar command

Module 14 - Compressing, Viewing, and Uncompressing Files

Compress files by using the compress command

View compressed files by using the cat command

Uncompress files by using the uncompress command

Compress a file with the zip command

View files by using the cat command

Compress and archive multiple files with the zip command

Module 15 - Performing Remote Connections and File Transfers

Establish a remote login session

Copy files or directories to and from another system

Transfer files between systems

LIST OF TOOLS & EQUIPMENTS

- 1). Centre Server Configuration
 - Intel P IV 2.0 GHz , Intel Celeron 2.0 Ghz or AMD Athlon 2000 or above
 - a)GB RAM ideal**
 - b) 80 GB Ultra SCSI-3 / SATA hard disk
 - c) Windows 2003 Standard Server with CAL Licenses
 - d) Anti Virus Program

- 2).Centre Workstation Configuration
 - Intel P IV 1.3 GHz , Intel Celeron 1.3 Ghz or AMD Athlon 1300 or above with 40 GB IDE / EIDE Hard disk
 - 512 MB DDR RAM**
 - 10/100 BaseT PCI Ethernet
 - Sound Card
 - 2 Serial, 1 Parallel, 2 Universal Serial Bus ports
 - 101/104 PS2 Keyboard
 - Three Button Mouse
 - Headphones
 - 14 “ SVGA Monitor or above
 - Anti Virus Program
 - Centre Networking
 - CAT-5 Structured Cabling with RJ-45 connectors
 - Patch Cables

- 3) A telephone line for Internet Purpose (Dial up Connection)
Internet account from Local internet service provider
56 KBPS Dialup modem
- 4) Server Peripherals
Flat bed Scanner with at least 600 dpi resolution and LaserJet /Inkjet Printer
CD writer , DAT drive OR Zip Drive OR External hard disk for backup
Web cam, Software Tools, Tools for Hands-on sessions
- 5).Software: Windows XP Licensed Versions of MS Office XP or OpenOffice.org
Microsoft MSN Messenger or Ya hoo Messenger.
Web Browser (Internet Explorer version 6.0 or above)
Solaris operating system