






Certificate in Unix (188) – Introduction to Solaris

Prerequisites: Knowledge in Windows operating system.	Corequisites: A pass or higher in Certificate in Networking or equivalence.
<p>Aim: The Introduction to Solaris course provides instruction in the key features and capabilities of Sun's flagship Solaris Operating System. Topics include file and directory management, controlling the user work environment, installing the Solaris operating system and user management. In addition, this course explains fundamental command-line features of the Solaris OS, including file system navigation, the vi text editor, file permissions, command shells, basic network use, and reading shell scripts. This course provide candidates with the skills they need to install and begin using the Solaris Operating System. The aim of the course is to teach students how to use fundamental UNIX commands and basic Solaris commands. This course is intended for students new to Sun's Solaris operating system. Students will learn functions of the shell, file system navigation, Solaris editors, file commands (including ls, cat, rm, mv, cp and ln), additional commonly used commands (including grep, od and pr) as well as learning user communication tools such as mailx. Upon completion of this course, students will be able to: Log in and out of the system; Navigate through the UNIX file system; Manipulate files; File permissions; Use basic network commands; Search for file names and strings; Edit files using the 'vi' editor; Use shell productivity features; Use shell productivity features; Use the 'vi' editor; Use mailx to send mail; Navigating the hierarchical file system; Setting file permissions; Using the vi visual editor; Using UNIX shells; Understanding Solaris network facilities. The Introduction to Solaris is designed to endow candidates with basic UNIX skills and set ground for the Solaris Administration course.</p>	
Required Materials: Recommended Learning Resources.	Supplementary Materials: Lecture notes and tutor extra reading recommendations.
<p>Special Requirements: The course requires a combination of lectures, demonstrations, discussions, and hands-on labs.</p>	
<p>Major Learning Outcomes:</p> <ol style="list-style-type: none"> 1. Describe an overview and the history of Solaris operating system. 2. Outline the process of logging into Solaris System and the files used by the operating system. 3. Demonstrate how to start and use vi editor, including the command to insert and save. 4. Describe user Solaris environment feature and command-line argument for the shells. 	<p>Assessment Criteria:</p> <ol style="list-style-type: none"> 1.1 Define proprietary operating system 1.2 Analyse Solaris commands and prompts 1.3 Outline advantages and disadvantages of Solaris 1.4 Analyse the history of Solaris 2.1 Explore graphical login 2.2 Explore command line login 2.3 Outline how Solaris stores information in files and directories 2.4 Analyse Solaris files and directories 2.5 Describe file manipulation functions 2.6 Be able to create directories 2.7 Explore how to set and change login password 2.8 Be able to use manual pages 3.1 Describe how to insert and append text 3.2 Explore how to move around in <i>vi</i> editor 3.3 Outline how to delete text 3.4 Analyse how to use the change operators 3.5 Be able to search for text 3.6 Be able to save and quit <i>vi</i> 4.1 Outline shell input/output controls 4.2 Be able to use redirections and pipe commands 4.3 Describe metacharacters 4.4 Explore the history mechanism 4.5 Define aliases

<p>5. Demonstrate the Solaris X Window System environment including the files and tools used.</p> <p>6. Describe Solaris networking technologies for providing a reliable, secure and scalable infrastructure.</p> <p>7. Outline Solaris administration of user and group accounts, the system files used to store the user and group accounts.</p>	<p>4.6 Explore the system process control</p> <p>4.7 Discuss file and directory protection</p> <p>4.8 Be able to copy and move files and directories</p> <p>4.9 Be able to set up user environment</p> <p>4.10 Explore Solaris utilities</p> <p>5.1 Analyse CDE graphical user interface</p> <p>5.2 Be able to invoke the file manager</p> <p>5.3 Explore CDE tools</p> <p>6.1 Describe Ethernet technology</p> <p>6.2 Explore host names and addresses</p> <p>6.3 Be able to use rlogin command</p> <p>6.4 Define Network File System</p> <p>7.1 Review shell facilities</p> <p>7.2 Be able to use regular expressions</p> <p>7.3 Outline Solaris utilities</p> <p>7.4 Analyse advanced <i>vi</i> commands</p> <p>7.5 Analyse spooling commands</p> <p>7.6 Explore Solaris workstations and hardware types</p> <p>7.7 Analyse Solaris network resources</p>
<p>Methods of Evaluation: A 2-hour written examination paper with Section A and Section B. Section A has 40 multiple choice questions. Section B has three essay questions, each carrying 20 marks. Candidates are required to answer all questions. Candidates also undertake project/coursework in Introduction to Solaris with a weighting of 100%.</p>	

Recommended Learning Resources: Introduction to Solaris

<p>Text Books</p>	<ul style="list-style-type: none"> • Unix Commands by Example: A Desktop Reference for Unixware, Solaris and Sco Unix by David Elboth, Kent Dannehl and P.C. Larsen ISBN-10: 0131039539 • Solaris Operating Environment Boot Camp by David Rhodes and Dominic Butler ISBN-10: 0130342874 • Unix System Command Summary for Solaris 2.5 by Inc. Specialized Systems Consultants ISBN-10: 0916151913
<p>Study Manuals</p> 	<p>BCE produced study packs</p>
<p>CD ROM</p> 	<p>Power-point slides</p>
<p>Software</p> 	<p>Solaris</p>