**UNIX**

Course Plan

Training Plan

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# Aims, objectives and scope

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| --- | --- |
| **Target audience** | FDM Applicants   * All entrants joining the FDM Academy |
| **Aim** | To assess delegates ability to apply logical and analytical processes to complete complex business tasks in an IT environment. |
| **Course Objectives** | After completion of this Course, delegates will be able to:   * Describe the major components and structure of the UNIX operating system * Use UNIX file and directory commands to navigate the system and manage personal files and directories * Use UNIX data commands to find data and manipulate data within UNIX * Use piping and redirection to build up more complex commands * Write shell scripts which can be used to address simple business problems |
| **Topics covered** | * Introduction to Operating Systems * UNIX Environment * UNIX file system * File and directory commands * Vi editor * Processes * Job Control * Data commands * Pattern matching using Regular Expressions * Redirection and Piping * Variables * Introduction to Shell Programming * Shell programming using conditional statements and flow control * Functions * Builtin commands |
| **Topics not covered** | * sed * awk * administration |

# Course Strategy

The course will be 5 days, and will include 2-3 days of instructor led classroom sessions followed by a UNIX project to be completed in the remaining time. Each session in the Instructor led part of the course will include exercises to consolidate learning.

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| --- | --- |
| **Length of course** | **5** days |
| **Delivery style** | The course will be delivered in the following ways:   * Instructor led training sessions * Individual exercises * Facilitated reviews * Review tests and quizzes |
| **Assessment** | Assessment will take the following forms:   * A UNIX project to write a shell script to address a business problem * A Command Line Test |
| **Pre-course work** |  |
| **Pre-requisites** | The following should be done by all delegates who attend the course:   * Set up a Safari account |
| **Post course activities** | Following successful completion of the course delegates will be required to complete the following:   * Regular UNIX revision * Research advanced topics, such as sed and awk, for interview preparation * Continue to develop UNIX knowledge required for the technical stream eg UNIX system administration command for support streams |

# Course Agenda

This is the proposed agenda; however the exact order and timings are at the discretion of the trainer.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Day 1** | **Day 2** | **Day 3** | **Day 4** | **Day 5** |
| * Introduction to UNIX * Filesystems * Vi * Pattern matching and searching * Piping & Redirection * Job Control, Exercises, Vimtutor | * Revision * Other Commands * Environment * Introduction to Shell scripting * Variables and command substitution * Writing Conditional scripts * Introduction to project * Plan project,   Exercises | * Command Line Mock * Flow Control * Functions * Builtin commands * Project Briefing * Project | UNIX Project | Submit UNIX Project  Command Line Test |