

# LESSON PLAN - Command Line Basics

## Overview

- Personal Introduction
- Introduction to the Command Line
  - What is a command line
  - Why is a command line important or useful
- Theory of the Command Line
  - Commands vs Programs vs Processes
  - Inputs and Outputs of processes
  - What is a shell process, interpretation
  - Programs running under shells
  - User access and process rights
  - File Expansion
  - Variable Replacement
- Practical Command Line
  - Running commands, press enter
  - Specifying arguments, spaced
  - Finding the commands, [apropos and ls]
  - Understanding how to use commands, [man and --help]
  - Directing Process Input and Outputs, pipes
  - Run as someone else, user control, sudo vs su
  - Basic Scripting
- Practical Section
  - Demonstrations
  - Using various commands
  - Student Practical
- Questions
- Optional Assignment for the week

## Materials

1. Section Presentation (slides)
2. Overview Sheet
3. Command Line Cheat Sheet
4. Practical and Assignment Sheet