Absolutely! Here’s the **most detailed and comprehensive breakdown** of the document titled **"93. Navigation Commands"**, formatted as **exam-focused study notes**. These notes follow a **sentence-by-sentence analysis** and explain every critical concept for **CompTIA A+ 220-1102 exam** prep.

**🧠 1. Concept Overview: Navigation Commands in Command Prompt**

Windows Command Prompt lets you move around the file system using text-based **navigation commands**. These commands are essential for performing file operations, managing system tasks, and scripting — especially in environments where the graphical interface isn't available (like during troubleshooting or boot issues).

**📚 2. Exam Relevance – A+ 220-1102**

**✅ Related Objectives:**

* **1.5:** Use Microsoft command-line tools
* **2.4:** Troubleshoot operating system problems

Navigation commands are tested in simulation-style and multiple-choice questions. You must know:

* How to move around directories
* Create and delete folders
* Switch between drives
* Use command-line tools like cd, dir, md, rmdir, and type

**✍️ 3. Detailed Study Notes (Sentence-by-Sentence Breakdown)**

**🔹 Purpose of Navigation Commands**

* In **Command Prompt**, you need to navigate folders via **commands**, not mouse clicks.
* GUI lets you click through folders easily (e.g., breadcrumb navigation).
* The example uses three folders — **FolderA**, **FolderB**, **FolderC** inside C:\Users\jason\Documents.

**🔹 Navigating with cd (Change Directory)**

* cd is used to **move into directories**.
* Example: From C:\Users\jason, to get to Documents: cd Documents
* Command Prompt updates to show new location: C:\Users\jason\Documents

**🔹 Viewing Directory Contents with dir**

* dir lists **contents of current folder**
* Always shows:
  + . = current directory
  + .. = parent directory
* These entries are **invisible in GUI**, but shown in CLI

**🔹 Using cd . and cd ..**

* cd . keeps you in the **current folder**
* cd .. moves you **up one level**
* Useful for quickly navigating back without typing full paths

**🔹 Clearing the Screen with cls**

* Use cls to **clear clutter** from the command screen
* Doesn’t affect your current location — just refreshes the view

**🔹 Creating Folders with md**

* md = make directory
* Example: md TextFiles creates a folder named TextFiles
* Use dir to verify creation

**Spaces in Folder Names**

* Must use quotes: md "Text Files"
* Without quotes: creates two folders — Text and Files

**Create Multiple Folders at Once**

* Example: md 1 2 3 4 5 creates five folders instantly

**🔹 Deleting Folders with rmdir**

* rmdir removes a directory
* Example: rmdir 2 deletes folder named “2”
* Deleting multiple: rmdir 3 4 5

**Important:**

* To delete folders with **spaces**, use quotes:
  + ✅ rmdir "Text Files"
  + ❌ rmdir Text Files (deletes Text and Files separately)

**🔹 Viewing File Contents with type**

* type filename.txt displays the **text inside a file**
* Works best with **plain text files**
* Won’t work well with:
  + Word documents
  + Images
  + Binaries

Example:

type AFile1.txt

* Output: This is A File 1

**🔹 Switching Between Drives**

* Use drive letter: to switch
  + Example: D: → moves to root of D drive
* dir confirms contents of new drive

**Creating Folder in Another Drive**

D:

md Test

**Going Back:**

* Return to C drive: C:
* System remembers **last folder** used in each drive

**🔹 Jumping to Root or Up Multiple Levels**

**Move to Root of Any Drive**

cd \

**Go Up Two Levels**

cd ..\..

* Example: From C:\Users\jason\Documents\FolderA → C:\Users\jason

**Jumping Directly to Deep Directory**

cd \Users\jason\Documents\FolderA

* Moves through multiple folders in **one command**

**🔹 Summary of Commands in This Lesson**

| **Command** | **Function** |
| --- | --- |
| cd | Change directory |
| cd .. | Move up one directory |
| cd \ | Go to root of drive |
| md | Make directory |
| rmdir | Remove directory |
| dir | List contents of folder |
| cls | Clear screen |
| type | View contents of a text file |
| C:, D: | Switch between drives |
| CD..\.. | Move up twice directory |

**💻 4. Real-Life Implementation Scenarios**

**👨‍💻 Technician Example: File Recovery**

* Navigates to lost folders via cd
* Uses dir to verify contents
* Displays contents with type to ensure correct files are located

**🛠️ System Maintenance Example**

* Creates folders like Logs, Backup using md
* Deletes temporary directories via rmdir
* Organizes data across drives (C: and D:)

**🖥️ Automation & Scripting**

* Scripts use cd, md, and type to:
  + Create logs
  + Backup files
  + Display system info during installations

**✅ 5. Exam Inclusion Notification**

✅ **Yes – 100% included in CompTIA A+ 220-1102**

**Justification:**

* Navigation commands are in **Objective 1.5**
* CLI tasks are tested via:
  + Multiple-choice
  + Performance-based simulations
* Expected to know syntax, spacing rules (quotes), and how to use cd, dir, md, and rmdir