Here’s a **thorough sentence-by-sentence analysis** of the document **“105. File Sharing.docx”**, converted into **detailed study notes** to help you master **Windows file sharing** for the **CompTIA A+ 220-1102** exam.

**🧠 1. Concept Overview: Windows File Sharing (Workgroup Environment)**

Windows file sharing allows users to **share files, folders, and printers** across devices in a **workgroup-based network** (like in homes or small offices). This process involves:

* Configuring network settings
* Enabling discovery and sharing options
* Setting user-level permissions
* Creating and managing shared folders

**📘 2. Exam Relevance (220-1102)**

* **Domain 1.7** – Configure Windows networking features
* **Domain 2.2** – Apply Windows security settings
* **Domain 2.4** – Use command-line tools (optional for sharing verification)

You’re expected to:

* Configure **file and printer sharing**
* Use **advanced sharing options**
* Understand **password-protected vs public sharing**
* Set **user permissions** for shared folders

**📝 3. Sentence-by-Sentence Study Notes**

**🔹 Set Network to Private**

* File sharing requires your **network to be set to Private**, not Public.
* You can change this by:
  1. Going to **Network settings**
  2. Opening **Network and Internet settings**
  3. Clicking **Properties** under the active connection
  4. Switching to **Private**

🔐 **Why?** Private networks allow **trusted sharing**; Public networks **block discovery** for security.

**🔹 Access Advanced Sharing Settings**

* Open the **Control Panel**
* Navigate to **Network and Sharing Center**
* Click **Change advanced sharing settings** on the left

Under **Private Network**:

* Enable **Network Discovery**: Lets your computer find other devices
* Enable **File and Printer Sharing**: Allows others to access shared folders/printers

**🔐 Password-Protected Sharing**

* Go to **All Networks** in Advanced Sharing Settings
* Two key options:
  1. **File Sharing Connections**: Uses **128-bit encryption** for secure file transfer
  2. **Password Protected Sharing**:
     + **On** = Only users with an account/password on your PC can access shared content
     + **Off** = Anyone on the network can access shared content (⚠️ Not secure)

💡 **Tip**: For security, keep password-protected sharing ON and create user accounts for each person.

**📂 Public Folder Sharing**

* Public folders can be accessed by **anyone on the network**
* You can **enable/disable** this feature
* Great for **non-sensitive content**
* Shared folders can:
  + Allow **read/write access**
  + Bypass usernames/passwords if set up that way

**🔧 Creating a Shared Folder**

**🗂️ Step-by-Step Folder Sharing**

1. Open **File Explorer** > C: Drive
2. Create a new folder: e.g., Shared Folder
3. Right-click > **Properties** > **Sharing tab**
4. Click **Share**
5. Add users and set permissions:
   * Options: **Read**, **Read/Write**, or **Remove**
   * Example: Eduardo = Read, Susan = Read/Write

✅ **Note**: Read/Write also gives **delete** access (deleting = writing).

1. Click **Share** > Folder is now shared with:
   * Path like: \\DionTrainingWin\SharedFolder

**🌐 Accessing Shared Folders**

* Others can access via:
  + File Explorer > enter \\ComputerName\SharedFolder
  + Example: \\DionTrainingWin\SharedFolder

**🔂 Real-Time Folder Updates**

* Creating subfolders like:
  + Susan’s Folder
  + Eduardo’s Folder

These instantly appear over the network for authorized users.

**⚙️ Advanced Sharing Settings (Per Folder)**

1. Right-click a subfolder (e.g., Eduardo’s)
2. Go to **Properties** > **Sharing tab** > **Advanced Sharing**
3. Enable sharing
4. Set custom **share name** (optional)
5. Limit the number of simultaneous users (e.g., 5)
6. Click **Permissions**:
   * Select user (Eduardo)
   * Give **Full Control** (read/write/delete)

🔒 **Granular Control**:

* Eduardo can modify only his folder, not Susan’s or the main Shared Folder.

**🧩 Discretionary Access Control (DAC)**

* You decide **who gets access** to what, and **how much control** they have.
* Example:
  + Susan gets **full control** of her folder
  + Everyone else is removed from access list

This creates **folder-level security**, even within shared folders.

**✅ 4. Real-Life Implementation**

| **Use Case** | **How It’s Handled** |
| --- | --- |
| Share files with coworkers | Enable file sharing + create user accounts |
| Give Eduardo read-only access | Add Eduardo with “Read” permission |
| Allow Susan full control | Grant her “Read/Write” (includes delete) |
| Share common files network-wide | Use the **Public folder** or shared folders |
| Prevent guest access | Keep **Password-Protected Sharing** enabled |
| Control folder use per person | Use **Advanced Sharing** + Permissions settings |

**✅ 5. Exam Inclusion Notification**

✅ **Yes — This content is 100% covered in the CompTIA A+ 220-1102 exam.**

You’ll be tested on:

* How to enable file and printer sharing
* Which settings apply to private/public networks
* How to assign user permissions
* What password protection does
* How to use **shared folders securely and effectively**