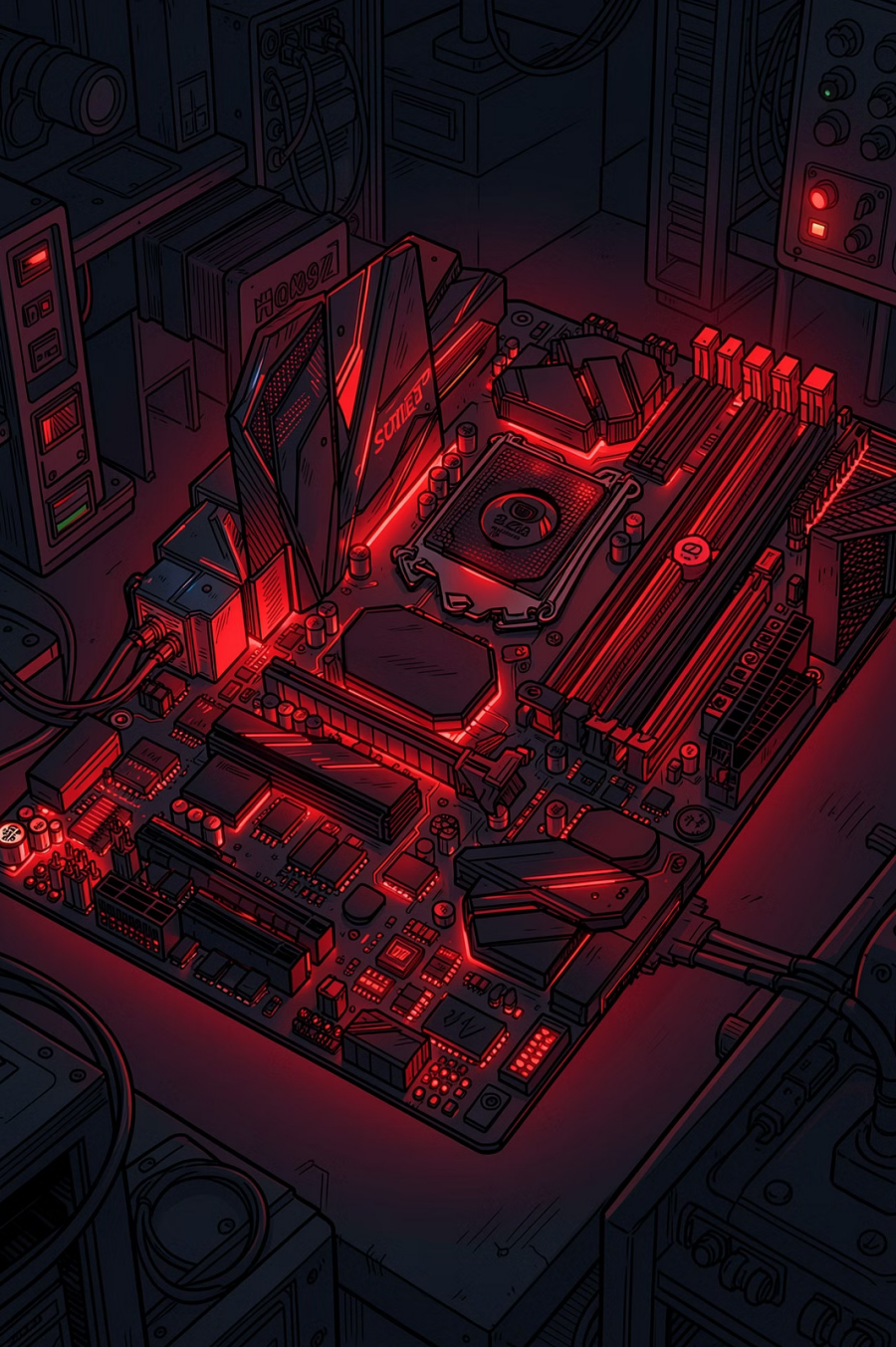




Installing Windows OS with HDD Partitioning

Step-by-Step Guide — **Computer Systems Servicing (CSS NC II)**
Laboratory Manual

Objectives

At the end of this activity, students should be able to:

01

Prepare a computer

Set up hardware for OS installation.

02

Configure BIOS/UEFI

Boot from a USB installer.

03

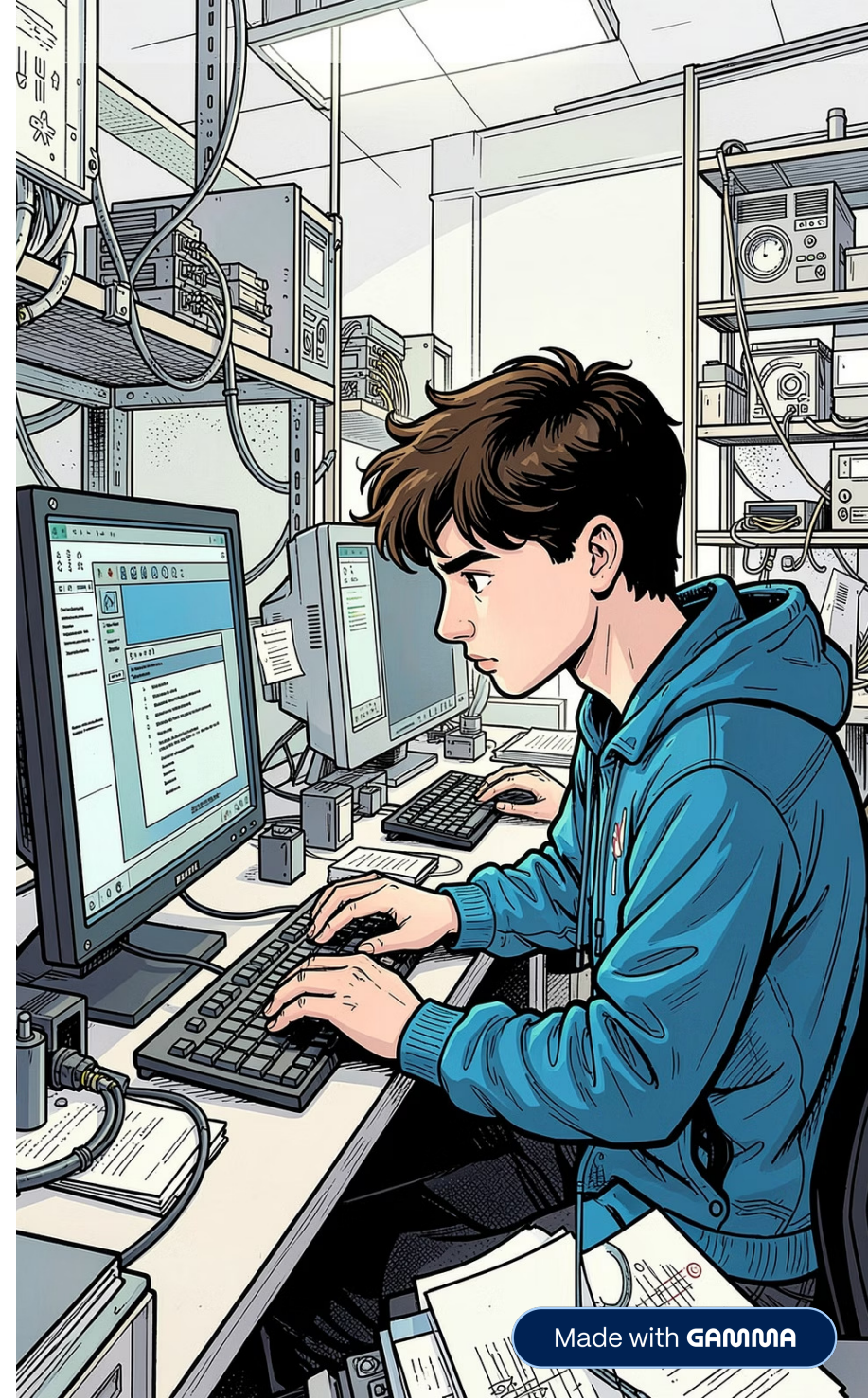
Partition HDD/SSD

Prepare storage for Windows.

04

Install Windows OS

Complete setup and verify installation.



Materials Needed

Hardware

- Desktop or Laptop Computer
- Monitor, Keyboard, Mouse
- Bootable Windows USB Installer (8 GB+)
- HDD or SSD
- Stable power source

Software

- Windows Installation Media
- Device Drivers (USB or DVD)

📌 Ensure all hardware is properly connected before beginning.

Prepare Computer & Configure BIOS/UEFI

1

Shut Down & Insert USB

Turn off the computer. Insert the Windows USB into an available port.

2

Power On & Enter BIOS

Press the BIOS key repeatedly during startup.

3

Set USB as First Boot Device

Navigate to Boot tab. Move USB to top of boot priority.

4

Save & Exit

Press **F10**, choose Save & Exit, then restart.

Brand	BIOS Key
Acer	F2
ASUS	F2 or Delete
Dell	F2
HP	F10 or Esc
Lenovo	F1 or F2
MSI	Delete
Gigabyte	Delete

Start Windows Installation



Boot from USB

When "**Press any key to boot from USB...**" appears, press any key. Windows loads the installation files.

Initial Setup Steps

1. Select language, time format, and keyboard layout → **Next**
2. Click **Install Now**
3. Enter product key or select "**I don't have a product key**"
4. Choose Windows edition (e.g., Windows 10 Pro)
5. Accept license terms
6. Select **Custom: Install Windows only (Advanced)**

HDD/SSD Partitioning

Scenario 1: New HDD/SSD (Unallocated Space)

1. Select **Unallocated Space** → Click **New**
2. Enter size for Windows partition (e.g., **120000 MB** for Drive C:)
3. Click **Apply** — Windows creates system partitions automatically
4. Select remaining space → Click **New** → Create **Data Partition (Drive D:)**

Scenario 2: Existing HDD with Partitions

  Back up all important files before proceeding.

1. Select each existing partition → Click **Delete** until drive shows **Unallocated Space**
2. Select **Unallocated Space** → Click **New**
3. Enter size for Windows partition (e.g., **120000 MB**) → **Apply**
4. Create another partition with remaining space

Format Partition & Complete Installation

1

Format the Windows Partition

Select the primary partition → Click **Format** → Confirm. Windows formats using **NTFS**.

2

Begin Installation

Select the formatted partition → Click **Next**. Windows copies and installs files automatically.

3

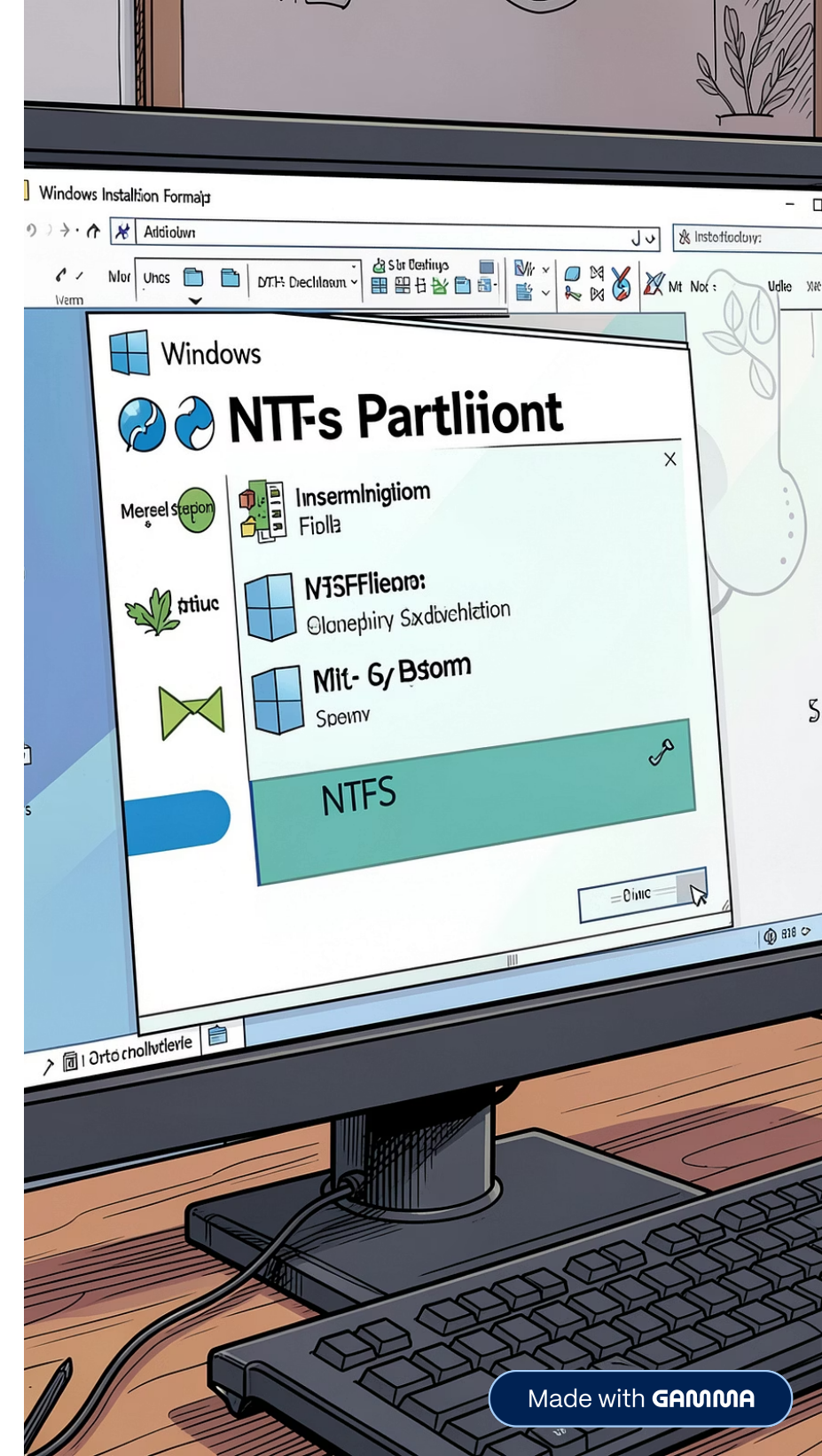
Automatic Restarts

The computer restarts several times. **Do not remove the USB** until instructed.

4

Remove USB

When prompted, remove the USB drive. The system continues booting from the HDD/SSD.



Initial Windows Setup (OOBE)

1

Region & Keyboard

Select your region and keyboard layout → **Yes**

2

Network

Connect to Wi-Fi or select **"I don't have internet"** for offline setup.

3

Account

Sign in with a Microsoft account or create a **Local Account**.

4

Privacy & Final Steps

Configure privacy settings → Wait while Windows completes setup → Desktop appears.



Post-Installation Tasks



Install Device Drivers

Install chipset, display, audio, and network drivers from USB/DVD.



Install Essential Applications

Install browsers, office tools, antivirus, and other required software.



Run Windows Update

Go to **Settings** → **Update & Security** → **Windows Update** and install all updates.



Create a Restore Point

Go to **System Properties** → **System Protection** → **Create**.

Verification & Documentation

Verification Checklist

- Windows boots without errors
- Device Manager shows no missing drivers
- Internet connectivity works
- Audio and display function properly
- Partitions appear correctly in File Explorer

Documentation Requirements

- Screenshot of Disk Management showing partitions
- Screenshot of System Properties
- Record BIOS key used
- Record partition sizes created
- Note issues encountered and solutions



✓ Proper OS installation and partitioning ensure system stability, data organization, and easier future maintenance.