



Skillsfuture@PA PC Laptop Upgrading

Objective

This course equips participants with the basic hardware knowledge of a Laptop and simple tips on how to open it, identify what's inside and upgrading it to give your laptop a second life!

Who should attend?

This course is targeted at anyone who has a keen interest in computer hardware architecture but has little or no basic skills and knowledge of it but interested to upgrade their old laptop.

Why should they attend?

- Learn about the hardware terminology and jargons use.
- Understand hardware technology through upgrading a laptop.
- Easy to follow step-by-step instructions with guidance from experience trainer.
- Perform basic hardware upgrades.
- Practical Hands on
- Know the Safety precautions involved

What you'll learn

- Identify Basic Components Inside of a Laptop
- Dismantle a Laptop Easily
- How to Speed up your Laptop
- Upgrade to a Solid State Drive in Minutes
- Tweak your SSD
- Replace your Optical Drive with a second Hard Drive
- Clone a Hard Drive Easily or Make a Back-up
- Add and Replace RAM in your Device
- Upgrading your battery and Wireless
- How to use your mini PCI-E slot
- Replace/Clean the Fan and Heatsink
- Replace Thermal Compound
- Upgrade BIOS
- Upgrade Operating System to Windows 10.
- Perform Windows updates



Are there any course requirements or prerequisites?

- Basic Knowledge of PC/Laptops and Hardware
- PC DIY

Trainer 's Profile:

- Has been in the IT Industry for more than 20 years.
- Experience in Hardware assembling, trouble-shooting and repair on PC, laptop & Server



- IBM Professional Server Specialist (PSS),
- Microsoft Certified System Engineer (MCSE),
- RedHat Certified Engineer (RHCE),
- Dip in Electrical Engineering, Singapore Polytechnic, SG
- Dip in Computer Studies, NCC UK
- B.Sc in Computer Science, Open University UK

Course Outline

Understand What's Inside of a Laptop?

- Basic tools you need
- Basic component of a computer system
 - System Board
 - Memory
 - Hard Disk Storage
 - Wifi module
 - Fans
 - LCD Display
- Introduction to various laptop designs
- Know the various brands available in the market.



Upgrading RAM

- Memory types
- Identify the kind of ram
- Know the maximum support memory capacity
- How much RAM will I need for Windows 7/8/10 , 32bits or 64bits
- How to add ram

Upgrade your Laptop using an SSD (Solid State Drive)

- SSD - is it Worth it?
- How to Clone a disk
- Install our new SSD

Replace your Optical Drive with a 2nd HDD/SSD (Solid State Drive)

- What you need.
- How to do it Step-by-step
- Enable extra drive to be seen in Windows OS



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35, Teck Whye Ave Singapore 688892

Windows OS Installation or upgrading

- Types of Windows OS
- Install from Scratch or Upgrade
- Upgrading to Windows 10
- Hints and Tips

Familiarize with the BIOS & Laptop Startup

- Power On Self Test (POST)
- Boot sequence
- Set & Clear boot password
- How to upgrade bios

Safety notes and Cautions

Practical Labs

