Understanding Computer Hardware & Peripherals Course

Learn the Ins and Outs of PC Maintenance to Build or Upgrade a PC in 2 Days

Course Code: TGS-2023038591 (SCTP) | TGS-2025060523 (Non-SCTP)

Course Description

Embark on a comprehensive exploration of computer functionality through our 2-day **Understanding Computer Hardware & Peripherals course**. This program provides a profound understanding of the fundamental aspects of computing, emphasizing essential knowledge. Participants will be introduced to the core components of a computer, their interconnections, and the practical expertise necessary for PC construction or upgrades.

This course delves into the foundational BIOS process, guiding individuals through the sequential booting of a computer. Structured to impart both theoretical understanding and hands-on proficiency, this course equips trainees to comprehend, identify, and e ectively engage with a diverse range of computer hardware and peripherals.

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@ASK Training is a Private Education Institution (PEI) accredited by the Ministry of Education (MOE) and also a Continuing Education and Training Centre (CETC) accredited by SkillsFuture Singapore (SSG), offering a diverse range of courses from Infocomm Technology (ICT) to Digital Marketing, with up to **90% funding and Career Advisory and Resources Support Programme.**

Who Should Attend?

This course is suitable for tech enthusiasts, students, DIY computer builders, professionals in non-technical fields, job seekers, small business owners, and IT support staff. Whether you're a beginner seeking to understand computers or looking to enhance your IT skills, this course provides essential insights into computer hardware and peripherals.
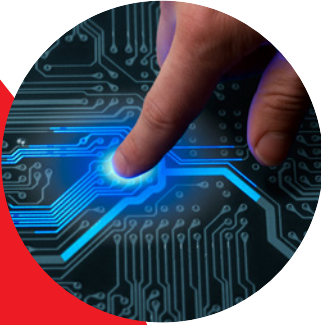
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Course Duration: **2 Days**, 9.00 AM - 6.00 PM
Course Fee: **From $69.85** (inclusive of 9% GST)
                               after 90% SkillsFuture Funding
Mode of Delivery: Face-to-Face Classroom

Course Objectives

Upon completion of this course, trainees should be able to:

- Acquire a holistic understanding of computer hardware, encompassing its definition, significance, identification of core components, and their pivotal role in facilitating user-computer interactions.

- Attain a comprehensive understanding of computer hardware, encompassing the primary roles of essential components like the motherboard, CPU, RAM, and storage devices, as well as familiarity with a variety of user interaction tools and the foundational mechanisms of data transfer via ports and cables.

- Build capabilities for assembling and upgrading a PC, discerning component compatibility during upgrades, and effectively troubleshooting prevalent challenges that arise during the PC building process.

- Articulate the role of BIOS in the boot process, optimise BIOS settings for enhanced system performance, and proficiently diagnose and resolve boot-related issues and errors.

Course Outline

Introduction to Computer Hardware
- Definition and significance of computer hardware
- Key hardware components of a computer system
- Interface between users and computer systems through hardware components

Identifying the Parts and Connectivity
- Motherboard and CPU
- RAM and Storage Devices
- Graphics Cards and Display Devices
- Input and Output Devices
- Connectivity

PC Build-Up/Upgrading
- Understanding the PC building process
- Compatibility considerations when upgrading components
- Step-by-step guide to assembling a PC.
- Troubleshooting common issues during PC build-up

BIOS & Process Flow of Booting
- Introduction to BIOS (Basic Input/Output System)
- Understanding the boot process and the role of BIOS
- Configuring BIOS settings for optimal performance.
- Troubleshooting boot-related problems

Minimum Entry Requirements
- 1 GCE 'O' level or equivalent; **OR**
- NITEC/Higher NITEC; **OR**
- Mature candidates ($\geq$ 30 years old with 8 years' work experience in an ICT-related field); **OR**
- Candidates with other qualifications will be considered on a case-by-case basis

Course Fee / Funding Information

S$550
(exclusive of 9% GST)

Course Fee After Eligible SSG Subsidies:

From **S$69.85**

(inclusive of 9% GST) after 90% SSG Subsidies

Self-Sponsored	Eligible Funding	Nett Fees Payable (Incl. 9% GST)	
Singaporean Citizens ⩾ 40 years old	**90%** SkillsFuture Funding	**S$69.85**	(after SSG 90% Funding)
Singaporean Citizens, PRs or LTVP+ Holders ⩾ 21 years old	**70%** SkillsFuture Funding	**S$179.85**	(after SSG 70% Funding)

SkillsFuture Credits can be used on top of existing subsidies

Company-Sponsored	Eligible Funding	Nett Fees Payable (Incl. 9% GST)	
Small-to-Medium Enterprise (SME) Singaporean Citizens, PRs or LTVP+ Holders ⩾ 21 years old	**90%** SkillsFuture Funding	**S$69.85**	(after SSG 90% Funding)
Non-SME Singaporean Citizens, PRs or LTVP+ Holders ⩾ 21 years old	**70%** SkillsFuture Funding	**S$179.85**	(after SSG 70% Funding)
Non-SME Singapore Citizens 40 years old & above	**90%** SkillsFuture Funding	**S$69.85**	(after SSG 90% Funding)

A SkillsFuture Statement of Attainment (SOA) and Certification of Completion by @ASK Training will be awarded to candidates who have demonstrated competency in the Understanding Computer Hardware & Peripherals Assessment and achieved at least 75% attendance.

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Visit our website: **https://asktraining.com.sg/it-courses/understanding-computer-hardware-peripherals-it-course/**

Call
6484 6723

Whatsapp
9430 3852

Email
information@asktraining.com.sg

Location:
10 Anson Road
#06-11 International Plaza
Singapore 079903