

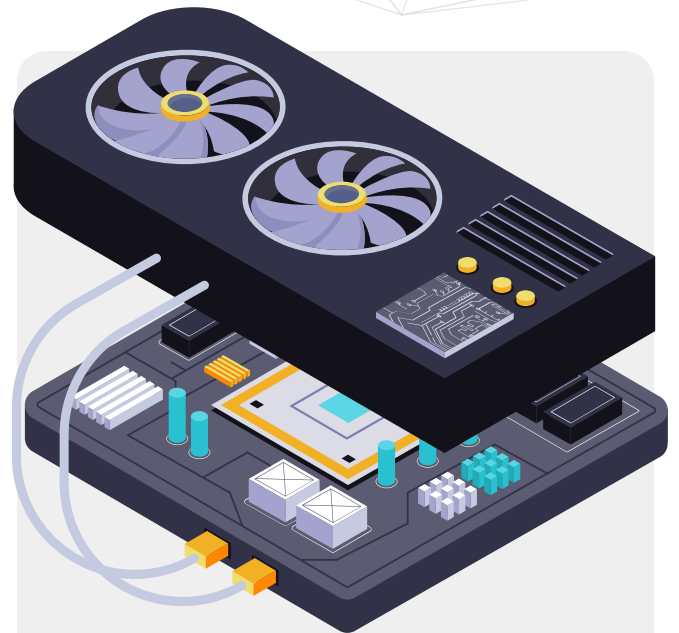


@ASK Training
Attitude | Skills | Knowledge



(24 HRS)

UNDERSTANDING COMPUTER HARDWARE & PERIPHERALS



Course **Synopsis**

This course provides participants with a strong foundation in computer hardware and its role in enabling effective user-computer interaction. Participants will explore key hardware components such as the **motherboard**, **CPU**, **RAM**, storage devices, ports, and cables, and understand how these work together within a computer system. The course also develops practical skills in assembling and upgrading a PC, assessing component compatibility, and troubleshooting common hardware installation issues. In addition, participants will examine the function of BIOS in the boot process, optimise BIOS settings for better performance, and diagnose and resolve typical boot-related problems encountered in desktop computing environments.

Course Code: TGS-2026064677

Prerequisites

Language:

- Attained at least WPLN Level 5 OR
- Obtained Grade C6 for GCE O-Level English OR
- Other equivalent qualifications

Academic:

- Obtained at least a pass or C6 at GCE O-Level in at least 3 subjects OR
- Candidates with other qualifications will be considered on a case-by-case basis OR
- Mature candidates (≥ 30 years old) with 8 years of relevant working experience

Total Training Hours:

- 24-hours, including a 2-hour assessment
- Practical Assessment

Learning Units



Learning Unit 1

Introduction to Computer Hardware



Learning Unit 2

Identifying the Parts and Connectivity



Learning Unit 3

PC Build-Up/Upgrading



Learning Unit 4

BIOS & Process Flow of Booting

Course Objectives

By the end of this course, learners 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.



Programme Fee

S\$981.00

(inclusive of
9% GST)

PROGRAMME FEE AFTER ELIGIBLE SWDA SUBSIDIES:

From **S\$114.30**

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

 Self-Sponsored	Course Fee before Subsidy and GST	Eligible Funding	Nett Fees Payable incl. 9% GST
Singapore Citizens ≥ 40 years old	S\$900.00	90% SkillsFuture Funding	S\$114.30
Singapore Citizens, PRs or LTVP+ Holders ≥ 21 years old		70% SkillsFuture Funding	S\$294.30

SkillsFuture Credits can be used on top of existing subsidies

 Company-Sponsored	Course Fee before Subsidy and GST	Eligible Funding	Nett Fees Payable incl. 9% GST
Small-to-Medium Enterprise (SME) Singaporean Citizens, PRs or LTVP+ Holders ≥ 21 years old	S\$900.00	90% SkillsFuture Funding	S\$114.30
Non-SME Singaporean Citizens, PRs or LTVP+ Holders ≥ 21 years old		70% SkillsFuture Funding	S\$294.30
Non-SME Singaporean Citizens ≥ 40 years old		90% SkillsFuture Funding	S\$114.30

Singapore Citizens 21 years old and above who meet special criteria* may be eligible for Additional Course Fee Funding Support (AFS) of 95% Subsidy. AFS is only eligible for SkillsFuture Career Transition Programme applicants.

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