# 计算机

# 专业英语

主编 吕 红





#### 21 世纪高职高专规划教材系列

# 计算机专业英语

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本书是根据中国一澳大利亚(重庆)职业教育与培训项目试点专业课的要求,并参照"全国高职高专英语教学的基本要求"和职业院校信息类专业"专业英语"课教学大纲编写的教材。全书共分 20 个单元,参考学时94 学时。每单元均标有参考学时和学习目的。体例结构采用任务式教学,以学习者为中心,体现了"动中学"的思想。本书配有丰富的插图,有利于激发学习者的思维和参与的积极性,充分体现语言教学的互动式。本书尝试了阶段性测试的重要教学理念,每课结束后均有自测题,使学习者随时了解自己的学习状况,有利于提高学习者的学习兴趣和自信心。本书的材料均选自英文原版书刊,题材广泛、内容新颖,紧跟时代步伐,使学生在学习语言的同时也了解本专业领域的一些最新发展。

本书可作为中等、高等职业技术院校计算机专业和电子技术专业教材使用,也可作为具有一定英语基础的信息类科技工作者自学教材和参考书。

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#### 出版说明

为了贯彻国务院发 [2002] 16 号文件《国务院关于大力推进职业教育改革与发展的决定》的精神,进一步落实《中华人民共和国职业教育法》和《中华人民共和国劳动法》,实施科教兴国战略,大力推进高等职业教育改革与发展,我们组织力量,对实现高等职业教育培养目标和保证基本教学规格的文化基础课程、专业技术基础课程和重点建设专业主干课程的教材进行了规划和编写。

本套教材内容涵盖了高职高专院校计算机及相关专业的专业基础课、专业课以及选修课程,主要分为计算机文化基础、编程语言、硬件技术、网络信息、数据库应用及多媒体技术等几大类。为配合高职教育关于"培养 21 世纪与我国现代化建设要求相适应的一线科技实用型人才"的最新理念,我们特为本系列教材配备了实践指导丛书,以利于老师的教学和学生的学习。

本套教材将理论教学和实践教学紧密结合,图文并茂、内容实用、层次分明、 讲解透彻,其中融入了作者长期的教学经验和丰富的实践经验。可作为各类高职 高专院校的教材,也可作为各类培训班的教材。

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#### 前言

现代科学技术突飞猛进、日新月异,信息技术作为现代社会的朝阳产业有着更广阔的发展空间。它与其他各门科学技术不断渗透,与人们的日常生活和工作联系越来越紧密。新世纪的信息技术人才不仅需要掌握扎实的专业基础和技能,还应当具备一定的专业英语运用能力,从而提高获取本专业前沿知识的能力和拓展交流本专业知识和技能的空间。《计算机专业英语》的编写目的就是帮助广大从事计算机行业的工作者或计算机爱好者提高专业英语的运用能力。

本书用全英文编写,将帮助已具有中等(及其以上)英语基础的信息类专业学生进一步 掌握必备的专业英语知识,使其逐步具备一定的阅读理解专业资料和用英语查阅专业信息数据的能力。

本书参照了中国—澳大利亚(重庆)职业教育与培训项目试点专业课的要求,并结合"全国高职高专英语教学的基本要求"和职业院校信息类专业"专业英语"课教学大纲编写。全书共分 20 个单元,涉及了计算机和通信领域的基础知识和应用技术,内容由浅入深,覆盖信息技术常见的内容和文献格式。为体现信息技术与现代生活的密切相关,本书每隔 3 课,就分别穿插了一篇有关电子邮件、网上购物、网上学习、网上游戏和个人主页等内容。

本书的特色在于集中体现了现代英语和专业英语教学的研究成果,改变传统专业英语教材的编写模式,更加注重以学习者为中心,采用任务式的教学法,调动学生参与课堂活动,体现了"动中学"的重要思想。本书语言选材地道、措辞友好、富有人性化,编写集文字、图片于一体,注重激发学习者的积极思维和参与性,充分体现互动式的语言教学特点。本书还体现了阶段性测试的重要教学理念,每课结束后均有自测题,使学习者随时了解自己的学习状况,有利于提高学习兴趣和自信心。本书的材料均选自英文原版书刊,题材广泛、内容新颖,紧跟时代步伐,使学生在学习语言的同时也了解本专业领域的一些最新发展。

本书由吕红担任主编,由张爱维、罗仁家、阳燕婷担任副主编。参与编写的人员还有吴蔚、张震东、江明华以及刘渝。"中澳职教项目"课程设计专家 Bruce Shearer(布鲁斯·希勒)先生和重庆师范大学外语学院院长吴念教授担任本书的主审。

由于编者水平有限,书中不妥之处难以避免,恳请读者批评、指正。

编者

# 目 录

出版说	明
前言	
Unit 1	Personal Computer ····· 1
Unit 2	Operate Computer Equipment Occupational Health, Safety and Welfare
Unit 3	Memories of a Computer ·······17
Unit 4	Install a New Motherboard ······23
Unit 5	Windows 2000 Operating System ·······31
Unit 6	Application of Office Automation
Unit 7	What is Excel ?47
Unit 8	Computer Network ······56
Unit 9	IP Address Configuration62
Unit 10	
Unit 11	Online Learning77
Unit 12	Shopping Online ······86
Unit 13	
Unit 14	
Unit 15	
Unit 16	· · · · · · · · · · · · · · · · · · ·
Unit 17	
Unit 18	
Unit 19	
Unit 20	
附:	录 A Student Bs' guide(学生 B 指南) ······ 142
附	录 B Keys and translation(答案和译文) ······················· 145
参考文	<b>tt</b> 187

#### Unit 1

### **Personal Computer**

#### Suggested Length of Lesson: 4 hours

#### Table of Contents:

- Giving the components' names with the help of the pictures
- Getting to know the components of a computer Activity 2:
- Discussing input devices and output devices in a computer Activity 3:
- Activity 4: **Building sentences**

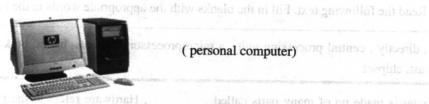
#### **Learning Outcomes**

#### Assessment

#### Activity 1

#### Giving the componets' names with the help of the pictures:

Task one: Work in groups (4 or 6 students in each group); discuss the components of a computer and write down as many words about computer as possible.



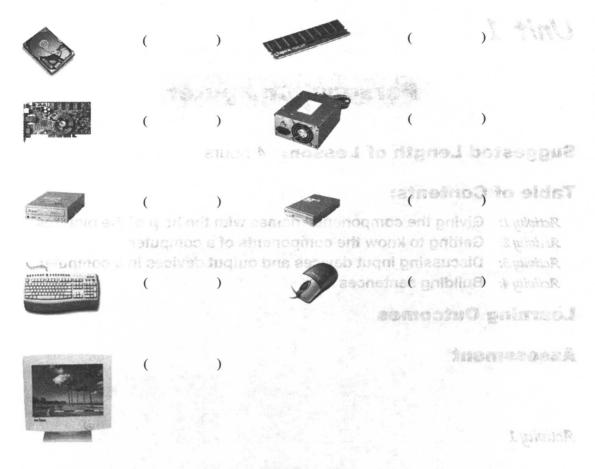
(personal computer) ord legings . Whomb, survivaled

once that you can see and tough, it contains a motherboan Task two: Work in pairs. Write down the names of the following components of a computer. The first one has already been done for you.



( motherboard )





#### Activity 2 autoto gate to gled eats attive somen Setonograpo eat guivid

# Getting to know the componets of a computer:

Task one: Read the following text. Fill in the blanks with the appropriate words in the box below.

hardware , directly , central processing unit , a microprocessor, contents, buses, bulk storage medium, vast, chipset

A computer is made up of many parts called \_\_\_\_\_\_. Hardware refers to the parts of the computer that you can see and touch. It contains a motherboard, \_\_\_\_\_\_, memory, disk drives, monitor, key, mouse and other electronic components. Then we come to learn the main components of PC.



The motherboard is the main circuit board inside the PC which holds the processor, memory and expansion slots and connects directly or indirectly to every part of the PC. It's made up of a \_\_\_\_\_\_ (known as the "glue logic"), some code in ROM and the various interconnections or buses. PC designs today use

many different	to link their various compone	ents. Asib symmus so	nit right of the
ale title to 10	vo Peet Light control, chock of 1996 an	eri Anhaine a Bell docube,	a med miller in orbide
Ind 1	The processor (really a short for	rm for microprocessor	and also often called
Xeon"	the CPU or) is	the central component	of the PC. This vital
	component is in some way responsible	e for every single thing	the PC does.
	the manuson, where they realists year	co fine sons	most shares with
	When the power to a PC is switch		
OA	It is the PC's harddisk that serves as	a non-volatile,	and as the
	repository for a user's documents, files	and applications.	friend f
	Today's mass produced CD-ROM	I drives are faster and	cheaper than they've
1 mm - 1	ever been. Consequently, not only is	a range of sof	tware now routinely
	delivered on CD-ROM, but many progra	ams (databases, multime	edia titles, games and
	movies, for example) are also run	from CD-ROM - o	often over a network.
	e processori.	nent / is / the PC / of / th	2 the central compon
Task two: De	cide the following statements are true or	false according to the te	ext in Task one.
1. A computer i	s made up of many parts called software.	es /the PC's (and di)k /	3. non-volatile, Asen
2. When the pov	wer to a PC is switched off, the contents of	of memory are lost. (	)
3. The motherbo	oard is the main circuit board. (entity)	c power to a PC / are / s	4. is / lost / wiren / th
Activity 3	and /the motherboard/	is / a slot / the graphics o	S, vig./ anached to /
лину 3			
Discussing	g input devices and output	devices in a co	iq\omi\noqza.ð <b>mputer:</b>
Task one: Grou	up discussion. What are input devices an	d what are output device	es? Write down the
	e of the devices.	Wil 100 100 100 100 100 100 100 100 100 10	
For example: i	input devices: keyboard	2.5	Learning outcom
-	-		
tor side so	this unit, students should	il completion of	On successfu
	l'a computer system (motherboard, CPU.	essential components of	I leentfy the three
MORPHISCOPPORT CONTRACTOR CONTRAC	ad the text and complete each sentence.		
	A computer keyboard is an array of		
	when pressed. Two types of switch are		
	switches are simply spring	The state of the s	
	ney complete the circuit and then break		
	with plenty of tactile feedback.		These are the type
	ne commonest mouse used today is me		eel for weight and
	r grip, and as it rotates it drives two		
	ed roller holds the in place again		- J displacement. A

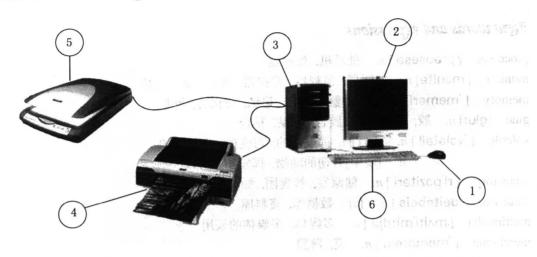
These rollers then tur	n two disks with radial slots cut in them. Each roo	tates between a
photo-detector cell, and each	ch cell contains two offset light emitting diodes (LEDs) an	d light sensors.
-	sors see the light appear to flash, showing movement, v	
between the two light sense	or shows the of movement. or cable plugs into this port. It is normally a 15-pin female.	
	are sent to the monitor, where they're displayed.	
	Wilco the power to a PC to extrained off, the	
Activity 4	in a deal of the factor of the second second second second in the second	
<b>Building sentence</b>	<b>BSI.</b> Dikir nii suviib MO24GO suudang zaan z'yodf	
Task one: Put the words	in order to make sentences.	
1. memory / and / the proce	essor, / the motherboard / holds / expansion slots/.	
NE often over a network.	notice for example) are also tree. from CD-RC	
	is / the PC / of / the processor/.	
the text in Task one	er in the following structure are true or false according to	a my test
3. non-volatile, / serves /the	e PC's hard disk / as a / bulk storage medium /.	
	wer to a PC is switched off, the contents of increasy are les-	rog sal med 7
	er to a PC / are / switched off / the contents of memory /.	
5. via / attached to / is / a s	lot / the graphics card / the motherboard/	Acarmy3
6. this port / into / plugs / t	he monitor cable / . Mi agoivab fuqi ua bas agoivab fuqal g	e de cusaln
devices. Write down the	operation. When are input downs and when are output	OID SECTOR
Learning outcomes		
	insodivak samirah runni	

#### On successful completion of this unit, students should be able to:

- 1. Identify the three essential components of a computer system (motherboard, CPU, monitor).
- 2. Identify input devices (keyboard, mouse, etc).
- 3. Identify storage devices (RAM, hard disk, floppy, etc).
- 4. Identify output devices (monitor, etc).
- 5. Describe the functions of computer main parts.

#### Assessment

#### Finish the following tasks with the help of the figure below:



- 1. Label the numbered components.
- 2. Identify the components of a computer system.
- 3. Classify the components of a computer system.
- 4. Describe the function of each device.

#### Notes

- [1] Hardware refers to the parts of the computer that you can see and touch. 硬件是指我们能看到和触摸到的计算机部分。"refer to"意为"涉及(指的是,提作)", "that you can see and touch" 是定语从句,修饰"computer"。
- [2] The motherboard is the main circuit board inside the PC which holds the processor, memory and expansion slots and connects directly or indirectly to every part of the PC. 母板是电脑内的主要电路板,在它上面安装着处理器、内存和扩展插槽,并且直接或间接地连接着电脑的每个部分。介词短语"inside the PC"作定语后置,修饰"board","which holds the processor, memory and expansion slots and connects directly or indirectly to every part of the PC"是由关系代词"which"引导的定语从句,修饰先行词"board"。which 在从句中作主语,其中"holds"和"connects"是两个并列的动词。
- [3] This vital component is in some way responsible for every single thing the PC does. 这个重要的组件通过某些方法完成电脑所发出的指令。"be responsible for" 意为"对……负责", "the PC does" 修饰 "every single thing"。
- [4] Today's mass produced CD-ROM drives are faster and cheaper than they've ever been. 今天大量生产的光驱驱动器的速度是越来越快,价格越来越便宜。"faster and cheaper"是两个并列的形容词比较级。

[5] The commonest mouse used today is mechanical. 现在最常使用的鼠标是机械式的。"the commonest"是形容词的最高级,"mouse"和"used"之间省略了"which is","which is used"是定语从句修饰"mouse",其中"be used"是被动语态,"被使用"。

#### New words and expressions

processor ['prouseso] n. 处理机,处理器 monitor ['monito] n. 监听器,监视器,监控器,班长 v. 监控 memory ['memori] n. 存储(器),内存,记忆,记忆力,回忆 glue [glu:] n. 胶,胶水 v. 胶合,粘贴,粘合 volatile ['volotail] a. 飞行的,挥发性的,可变的,不稳定的 n. [现罕]有翅的动物,挥发物 repository [ri'pozitori] n. 储藏室,智囊团,知识库,仓库 database ['deitobeis] n. [计]数据库,资料库 multimedia [,mʌlti'mi:djə] n. 多媒体,多媒体的采用 membrane ['membrein] n. 膜,薄膜 sensor ['senso] n. 传感器 diode ['daioud] n. 二极管 tactile ['tæktail] a. 触觉的,有触觉的,能触知的

#### Unit 2

# Operate Computer Equipment Occupational Health, Safety and Welfare

Suggested Length of Lesson: 8 hours

#### **Table of Contents:**

Activity 1: Learning by doing rose of amabute dead 4) square in show seeming at

Activity 2: Introducing the occupational health, safety and welfare

Activity 3: Identifying the power access procedures and lighting

Activity 4: Identifying the posture while operating computer equipment

Activity 5: Identifying other OHSW issues and OHSW responsibilities

Activity 6: Identifying work habits

#### **Learning Outcomes**

#### **Assessment**

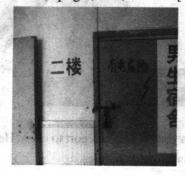
#### Activity 1

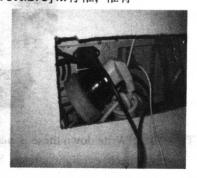
#### Learning by doing:

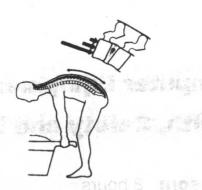
**Task one:** Work in pairs. Discuss the OHSW principles with the help of the following pictures. Here are some hints of words to help you.

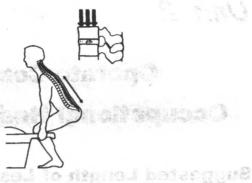
obstacle, electricity, electric shock, upright, bent, vertebra ['və:tibrə] n. 脊椎; 椎骨











Task two: The class sits in a computer lab.

Task three: Work in groups (4 or 6 students in each group). Look at the following pictures. Please find out the OHSW issues appearing in them. 30 9th pribabottal - Sudottak





Table of Contents:



Task four: Write down these issues you think and report to class. Here are some hints to help you. back, neck, eyesight, stretch, hazard, ergonomics...

#### Activity 2

#### Introducing the occupational health, safety and welfare

Task one: Work in pairs. Anticipate what will be disc	cussed in the following passage according to
the statements below.	1.27 Sent of telling (in the con-
occupational health, safety and welfare issues	
computing equipment	
setting up a worksite	
designed furniture	
adjust the chair	
1 1	
Task two: Compare what you anticipated while filling	ig in the uncompleted adjectives or adverbs.
The first one has already been done for you.	belf v Sarden P will do in the ep
It is important to be aware of occupational health,	, safety and welfare issues and the way they
relate to the use of computing equipment. Being awar	are of the issues to consider in setting up a
worksite c for one person, and ensuring you are	re c will help you to work well. You
will then be a to apply this knowledge in v	working out the best ways to organize a
workstation when you are working at a computer with or	one or more consumers.
Where computers are used, e designed	furniture is used with it. You need to know
how to adjust the chair, table or desk and computer to pr	protect your back, your neck, your wrists and
vour evesight	
unsumpupe reluginos gnitarego c	identifying the posture while
Task three: Understand the word "ergonomics" and w	write down its definition by rearranging the
	to identity the parts pointed, with
Ergonomics is /enable / comfortable / the /manner/a	/areas/ and /design/in /healthy / people / to /
work /safe /to /a /and /equipment/of /work/.	people / to /
Ergonomics is	
	*
Chatinity 2	
Activity 3	

### Identifying the power access procedures and lighting:

Task one: Choose the appropriate words or phrases to fill in the blanks while reading the following passage. The first one has already been done for you.

power cord, Electrical leads and cables, power, computing equipment, cables, power point

#### Check the following:

• <u>Electrical leads and cables</u> should be positioned to avoid personal injury or where plugs can inadvertently pulled from the socket.

introducing the occupational applitudes of the cately and w

- Ensure \_\_\_\_\_\_don't obstruct walkways. and low take the ablance and see
- Switch off any \_\_\_\_\_ which is not being used for long periods of time.
- Ensure that cables are not being squashed or stretched. Make sure the <u>low want of</u> (including extension lead) is less than five meters.
- Make sure the \_\_\_\_\_\_ is easily accessible, in case you need to unplug the power cord.
- If you do turn off the \_\_\_\_\_\_ to the computer or a printer, always wait at least 4 seconds before turning it back on.

Task two: Learning by doing. Work in pairs. Student A will do by following the suggestions below. Student B will do in the opposite way. Exchange your experience.

#### I important to be aware of occupational health, safety and welfare is use and the antihidial

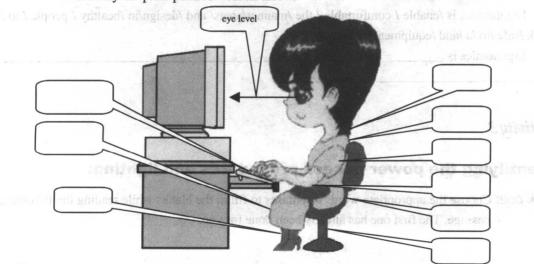
Proper lighting will make the computer screen easier to see and will reduce eyestrain. The computer needs to be positioned so that direct sunlight or bright indoor lighting does not reflect off the screen.

ere computers are used, c designed furniture is used with it. You

## Activity 4 Activity 4 Activity 4 Activity 4

#### Identifying the posture while operating computer equipment:

Task one: Work in pairs. Get to know the correct posture with the help of the following picture. Try to identify the parts pointed with an arrow.



**Task two:** Point out what the underlined words refer to in the above picture. One of them has already been done for you.

The factors to think about when making adjustments are the height of your chair in relation to the computer screen and the keyboard. Place your chair so that the keyboard is at or slightly below the level of your elbow and the mouse and mouse pad is within comfortable reach. The computer screen should be slightly below eye level. You should be able to type comfortably and use the mouse with your shoulders relaxed and without having to frequently turn your head or twist your neck. Your knees should be slightly higher than your hips – this eases pressure on the back of your thighs. You then need to adjust the back of the chair so it supports the lower curve of your spine. When you sit straight, your knees, hips and elbows should form roughly 90-degree angles when you work.

Task three: Identify the consequences if slumping forward. After reading the following passage, summarize the consequences if you slump forward.

Slumping forward means that your lung capacity is reduced and this lowers the amount of oxygen you are supplying your body. The result is that you feel tired and listless. If your legs are crowded under the desk or table (e.g. if they are crossed) it can cut the supply of blood in your thighs, causing discomfort. If your arms and wrists are not comfortably supported, e.g. hanging on the edge of the desk, it can over time damage the muscles.





#### Activity 5

#### Identifying other OHSW issues and OHSW responsibilities:

**Task one:** Have you noticed the following issues while operating computers? Work in pairs. Tell your experience to your partner.

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 Sensitivity of computers – don't move the computer unnecessarily – movement can dislodge some of the parts (e.g. the sound or video card inside) resulting in the

