

# ESP

● 专门用途英语系列教材

# 电力英语

## English for Electric Engineering

教育部《电力英语》教材编写组 编

高等教育出版社

专门用途英语系列教材

**English**  
for  
**Electric Engineering**

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## 内 容 提 要

本书系教育部规划的高等学校专门用途英语系列教材之一,旨在提高电力类专业的学生和电力行业从业人员在其行业中的涉外业务英语交际能力,包括专业阅读、翻译、写作和口头交际的能力。

本书共 10 个单元,每单元包括“专业阅读”、“模拟套写”和“交际会话”三个部分,各单元之后安排有实用的英语广告一则,在写作部分之前和之后分别收录与电力行业有关的图表及常用表达语等,书后附有词汇表、短语表、练习答案及参考译文。

本书主要供高等院校(包括高等专科学校和高等职业院校)电力类专业英语教学使用,也可供电大、各类成人院校及广大专业人员学习专业英语、提高涉外业务交际能力使用。

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## 前 言

专门用途英语系列教材是教育部规划的高等学校专业英语阶段的英语教材。本系列教材从高等技术应用型人才培养的总体目标出发,结合学生毕业后的工作实际,力求向学生提供其未来工作岗位所需要的专业英语知识和技能,培养学生使用涉外业务英语的能力。

本系列教材每一品种书都由 10 个单元组成,每单元包括阅读与翻译、模拟套写和听力与会话三部分。

本系列教材主要供高等院校(包括高等专科学校和高等职业院校)专业英教学使用,也可供电大、各类成人院校及广大专业人员学习专业英语,提高涉外业务交际能力使用。

《电力英语》系专门用途英语系列教材中的一种,旨在提高电类专业的学生和电力行业从业人员在其行业中的涉外业务英语交际能力,包括专业阅读、翻译、写作和口头交际的能力。

《电力英语》共 10 个单元,每单元分为以下三个部分:

1. 第一部分为“专业阅读”(Technical and Practical Reading),旨在培养学生阅读电力类专业英语的能力。本部分包含 A、B 两篇文章,所收入的文章既展示当今高新技术在电力企业的应用和前景,又涉及电力系统的各个专业。

2. 第二部分为“模拟套写”(Simulated Writing),旨在培养学生参照范例用英语拟写和翻译商业信件、涉外合同、产品广告等应用文的能力。

3. 第三部分为“交际会话”(Communicative Speaking),旨在培养学生的口语交际能力。内容涉及参观电厂、制定计划、谈判及技术交流与咨询等。

本书在各单元末尾安排有一则英语广告,在各单元写作部分之前及之后分别收录了与电力行业有关的图表及常用表达语等,供使用者阅读参考。

本书构思独特、实用性强,尤其突出了电类专业的涉外业务实际需要;选材新颖、点面结合、内容丰富、语言规范;练习的设计兼具实用性和针对性,书后附有练习答案和参考译文,便于学习者学中用,用中学。

《电力英语》的总主编为大连理工大学孔庆炎教授。

北方交通大学包兰宇担任本书的主编,并编写了第 1、2 单元和全部 10 个单元的交际会话部分;沈阳电力高等专科学校刘然编写了第 3 至 6 单元;长春工程学院景志华编写了第 7 至 10 单元。

华北电力集团公司外事局董汉杰局长、北京戴尔特商务培训中心(Beijing Delter Business Center)外籍教师 John Bell 和 Hugh Kay 先生对全稿的交际会话部分进行了审校,有关专家及各校的专业教师为课文的译文做了许多校订工作,在此一并表示感谢。

由于编者水平有限,加之时间仓促,疏漏和不妥之处在所难免,恳请读者不吝指正。

编者

2000 年 6 月

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# 1 UNIT

## Specific IT Products in Plant Operations

### Part I

### Technical and Practical Reading

#### ■ Passage A

### Through the IT Looking Glass Appears a New Kind of Company

What used to be considered plant-level control, monitoring, and automation systems are now becoming part and parcel of the plant owner's corporate-wide information system. Plant data acquisition becomes part of the corporate information system; the computerized maintenance management system (CMMS) becomes part of an enterprise asset management (EAM) system; document management is a subset of plant design from a life-cycle standpoint; and so on. In essence, the industry is moving away from simple automation of repetitive tasks and administrative chores, towards using IT as a comprehensive and integrated competitive strategic tool.

In addition, the plant-level IT engines are based less and less on proprietary software and hardware. Even mission-critical control can be reliably conducted on open PC architecture, according to many IT experts. Finally, power-industry executives see IT as providing a way to streamline plant management and staffing, raise productivity, and add economic value to the enterprise.

In fact, many executives view IT application as a way to break down entrenched organizational barriers that are difficult to break any other way — such as by management directives. A simple example at power plants: integrating the operations department with the maintenance department and align them towards common goals of enterprise profitability.

Specific IT products are revolutionizing plant operations, or are expected to in the coming years. Several of these topics are discussed below.

**Optimization.** Process optimization packages have made significant progress in penetrating the power generation market over the last two or three years. These software packages — which seek to analyze and discover patterns in huge amounts of data to determine an optimum combination of unit set-points for efficiency, emissions, etc. — have probably been applied to at least 150–200 coal-fired units.

**Predictive maintenance.** Predictive maintenance is another important IT category at the plant level. The basic PdM suite today includes vibration analysis, shaft alignment measurement, tribology for lubrication systems, and thermograph to detect patterns in heat loss and gain. These techniques are combined with software packages to arrive at knowledge-based asset management.

**Mobile computing.** Although the control room is often known as the nerve center of the plant,



## 2 Unit 1 Specific IT Products in Plant Operations

emerging mobile computing solutions allow workers to acquire, disseminate, and access knowledge from almost anywhere.

**Simulator.** Increasingly, simulators are introduced as part of the control system upgrade. They have gained wide acceptance as an effective way to improve power plant availability and performance. While simulators are used to provide operators with practical experience in the shortest time possible, they are also used widely for introducing new DCSs, training non-operators as part of multi-skill efforts, validating plant procedures, and evaluating control system and plant design modifications.

**Inventory management.** This area could be an early, practical application of e-commerce tools at the power plant level. There are several enterprises that seek to help power stations obtain and sell spare parts, and in general reduce the cost of carrying inventory.



### New Words

corporate /'kɔ:pərit/ *a.*  
 acquisition /ækwi'ziʃən/ *n.*  
 maintenance /'meɪntinəns/ *n.*  
 asset /'æset/ *n.*  
 subset /'sʌbset/ *n.*  
 essence /'esns/ *n.*  
 integrated /'ɪntɪgreɪtɪd/ *a.*  
 strategic /strə'tɪdʒɪk/ *a.*  
 proprietary /prə'praɪətəri/ *a.*  
 mission-critical /'mɪʃən 'krɪtɪkəl/ *a.*  
 architecture /'ɑ:kɪtektʃə/ *n.*  
 streamline /'stri:mleɪn/ *v.*  
 staffing /'stɑ:fɪŋ/ *n.*  
 entrenched /ɪn'trentʃt/ *a.*  
 directive /dɪ'rektɪv/ *n.*  
 align /ə'leɪn/ *v.*  
 optimization /ɒptɪmaɪ'zeɪʃən/ *n.*  
 penetrate /'penɪtreɪt/ *v.*  
 optimum /'ɒptɪməm/ *a.*  
 category /'kætɪgəri/ *n.*  
 suite /swi:t/ *n.*  
 vibration /vaɪ'breɪʃən/ *n.*

(企业)法人的, 共同的  
 获得  
 维修  
 财产, 资产  
 子集  
 本质, 实质  
 综合的  
 战略的  
 专有的, 所有的  
 关键任务的  
 结构, 组织  
 精简, 使效率更高  
 人员  
 顽固的  
 指令  
 使适合, 对准  
 最优化  
 渗透  
 最佳的  
 种类  
 套, 组  
 振动

shaft /ʃɑ:ft/ *n.*  
 alignment /ə'lainmənt/ *n.*  
 tribology /tri'bɒlədʒi/ *n.*  
 lubrication /lu:'bri'keiʃən/ *n.*  
 thermograph /'θɜ:məʊgrɑ:f/ *n.*  
 disseminate /di'semineit/ *v.*  
 validate /'vælideit/ *v.*  
 evaluate /i'væljueit/ *v.*  
 inventory /'invəntri/ *n.*

轴  
 校直, 对准  
 摩擦学  
 润滑  
 记录温度计  
 传播  
 证实  
 评价  
 报表, 库存

### Phrases and Expressions

part and parcel  
 in essence  
 integrate ... with  
 view ... as  
 arrive at  
 multi-skill efforts  
 e-commerce

重要的部分  
 从本质上  
 使结合  
 视...为  
 得出  
 多技能训练  
 电子商务



### Notes

- In essence, the industry is moving away from simple automation of repetitive tasks and administrative chores, towards using IT as a comprehensive and integrated competitive strategic tool.  
 短语 move away from 表示从一种状态转向另一种状态, using...是动名词短语做介词 towards 的宾语。

### EXERCISE 1

Decide whether the following statements are True or False according to the passage.

- It's important for the plant owners to pay close attention to the automation of the plant's control, monitoring and automation systems.
- The plant-level IT products depend heavily on proprietary software and hardware.
- About 150–200 coal-fired units have adopted process optimization packages.
- Simulators have been found a wide range of uses by now.
- Practical application of e-commerce tools might not be useful to inventory management.

### EXERCISE 2

Complete the outline according to the passage.

- IT is used in the electricity generating industry as :

- 1) a \_\_\_\_\_ competitive strategic tool;
- 2) a mode to conduct \_\_\_\_\_ control on open PC architecture;

#### 4 Unit 1 Specific IT Products in Plant Operations

- 3) a way to reduce management and staff, \_\_\_\_\_ productivity and \_\_\_\_\_ economic value to the enterprise.
2. Specific IT products used in plant operations involve:
- 1) optimization                      2) predictive maintenance                      3) \_\_\_\_\_
- 4) \_\_\_\_\_                      5) inventory management

#### EXERCISE 3

Translate the following phrases into Chinese or English.

- |                                  |       |
|----------------------------------|-------|
| 1. IT                            | _____ |
| 2. _____                         | 控制系统  |
| 3. maintenance management system | _____ |
| 4. _____                         | 经济效益  |
| 5. from a life-cycle standpoint  | _____ |
| 6. _____                         | 显著的进展 |
| 7. control room                  | _____ |
| 8. _____                         | 破除    |
| 9. an effective way              | _____ |
| 10. _____                        | 备品备件  |

#### EXERCISE 4

Fill in the blanks with the suitable words or phrases given below, changing the form where necessary.

used to be	be based on	be combined with	add ...to ...
computerized	detect	arrive at	use ... as...

- The book to be published \_\_\_\_\_ a true story.
- This Chinese traditional medicine \_\_\_\_\_ the western medicine to cure AIDS.
- I wish he would \_\_\_\_\_ some conclusion.
- Can you \_\_\_\_\_ a bad smell in this corner of the room?
- The company has decided to \_\_\_\_\_ its sales division.
- There \_\_\_\_\_ an open field here, but now it's a park.
- Increasingly, simulators \_\_\_\_\_ an effective way to improve power plant availability and productivity.
- You'd better \_\_\_\_\_ these examples \_\_\_\_\_ those you have already noted.

#### EXERCISE 5

Translate the Chinese given in the brackets into English.

- An enterprise asset management system is partly made up of \_\_\_\_\_ (计算机化的维修管理系统).
- Information technology will be used as a way to \_\_\_\_\_ (为企业增加经济效益和提高生产率)

3. In fact these entrenched organizational barriers \_\_\_\_\_ (难以用这种办法清除) .  
 4. These IT products \_\_\_\_\_ (有望在明年给电厂运行带来一场革命) .  
 5. Simulators are used to \_\_\_\_\_ (为运行人员提供大量的实践经验) .

■ Passage B

Use the Web to Manage *Inventory*

Today's power plant managers, responsible for both technical and financial performance of their facilities, are working to **optimize** plant inventory. Blindly following manufacturers' recommendations can yield **excessive** or **redundant** levels of spare parts. On the other hand, cutting inventory too low can **impair** production if, for example, the required **bearing** is not on the shelf when the **pump** trips on Sunday morning.

Another inventory concern is that, as plant equipment is **updated** or replaced, spare parts may become **obsolete**, wasting valuable warehouse space and raising carrying costs.

A new Internet-based trading company may help. The new company, called Trading, uses a business **model** similar to e-Bay, the popular Internet **auction** site for **retail** consumers. At [www.tradeout.com](http://www.tradeout.com), managers can buy repair parts and sell excess inventory in an auction-based, **sealed-bid**, or **fixed-price format**. A **diverse** range of **merchandise** from many industry sectors is represented on the Web site, including electronic components, computers, and machinery.

After its first three weeks of operation, the company reported that \$25-million in **assets** and excess inventory had been listed on its Web site.

"All companies typically spend a lot of time and money managing excess inventory and idle assets, but are unable to maximize the **sales revenue** on these goods because they work with a limited group of **jobbers**, and **auctioneers**," declared Brin Smith, CEO and founder of Tradeout.com. His company makes the process more **lucrative**, Smith believes, by providing sellers with a direct link to a larger audience.

For buyers, the Web site offers access to products 24 hrs/day, seven days/week, and the flexibility to tailor their own search.

Tradeout.com does not buy assets or fulfill purchase orders. After the listing closes, the seller and buyer are **notified**, and the transaction is completed offline. Sellers pay a \$10 listing fee per item and a 5% **commission** on completed sales.

存货

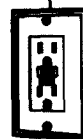
优化  
 多余的  
 削弱  
 轴承  
 泵  
 更新  
 过时的

模式/拍卖  
 零售  
 密封标书/格式  
 不同的/商品, 货物

资产

总收入  
 批发商  
 拍卖商  
 可获利的, 赚钱的

通知  
 佣金



EXERCISE 6

Match the following English phrases in Column A with their Chinese equivalents in Column B.

## 6 Unit 1 Specific IT Products in Plant Operations

### A

1. blindly following manufacturer's recommendation
2. raise the carrying cost
3. an Internet-based trading company
4. industry sectors
5. manage excess inventory and idle assets
6. by providing sellers with a direct link to a large audience
7. buy assets or fulfill purchase orders
8. offer access to products 24 hrs/day, seven days/week

### B

- a. 提高维护成本
- b. 工业部门
- c. 盲目听从厂商的推荐
- d. 1周7天每天24小时可了解产品
- e. 购买资产或完成定单
- f. 一家基于因特网的公司
- g. 处理过剩存货和闲置资产
- h. 通过为卖方提供直接与广大买主联系的方式

### EXERCISE 7

Fill in the blanks with the words you've learnt in the passage.

A new Internet-based trading company called Trading uses a business model similar to e-Bay, the popular Internet auction site for retail consumers. At [www.tradeout.com](http://www.tradeout.com), (1) \_\_\_\_\_ can buy repair parts and sell excess inventory in an auction-based, sealed-bid, or fixed-price format. A diverse (2) \_\_\_\_\_ of merchandise from many industry sectors is (3) \_\_\_\_\_ on the Web site, including electronic components, computers, and machinery.

Tradeout.com does not buy assets or (4) \_\_\_\_\_ purchase orders. After the listing (5) \_\_\_\_\_, the seller and the buyer are notified, and the transaction is completed (6) \_\_\_\_\_. Sellers pay a \$10 listing fee per item and a 5% commission on the (7) \_\_\_\_\_ sales.

### Learn to Understand

Do you know the English terms for the variables to be measured in engineering, the units in which they are measured, and the instruments you use to measure them?

Quantity	Unit	Instrument
Current	Amp	ammeter
Voltage	Volt	voltmeter
Resistance	Ohm	ohmmeter
Power	Watt	wattmeter
Force	Newton	force gauge
Pressure	Pa	manometer
Velocity	km/hr	speedometer
Temperature	°C/°F	thermometer
Thickness	millimeter	micrometer
Length	meter	ruler

**Part II****Simulated Writing****Advertisement (1)**

广告 (advertisement) 的特点:

1. 宣传性
2. 真实性

报刊广告文稿由标题、正文和结尾三个主要部分组成。标题是广告的“眼睛”。正文是提供商品信息细节的部分。广告的结尾又叫落款，主要是交代厂商名称、地址、联络电话等，便于顾客联系。

**Sample****Field Service Technician**

Wheeling, IL company is looking for a motivated individual with 3—4 years' experience in servicing and troubleshooting industrial boilers and control systems. Travel and in-shop duties. Competitive salary and good company benefits. Fax or send resume to:

Dept.4000

Indeck Power Equipment Co.

1115 S. Willis Ave. Wheeling, IL 60090

Fax: 847/543-9987

**EXERCISE 8**

**Complete the following advertisement by translating the Chinese given in the brackets.**

A leading power services contractor in Southern California (1)\_\_\_\_\_ (欲招聘一名销售代表, 其任务是建立并保持与客户的关系), seek out work and acquire bid packages. (2)\_\_\_\_\_ ( 我公司营业已有 25 年之久) and offer a competitive salary and benefits package. (3) \_\_\_\_\_ (须具备电力工业的销售经验) and a working knowledge of the work disciplines involved. For immediate consideration, (4) \_\_\_\_\_

( 请将个人简历寄到):

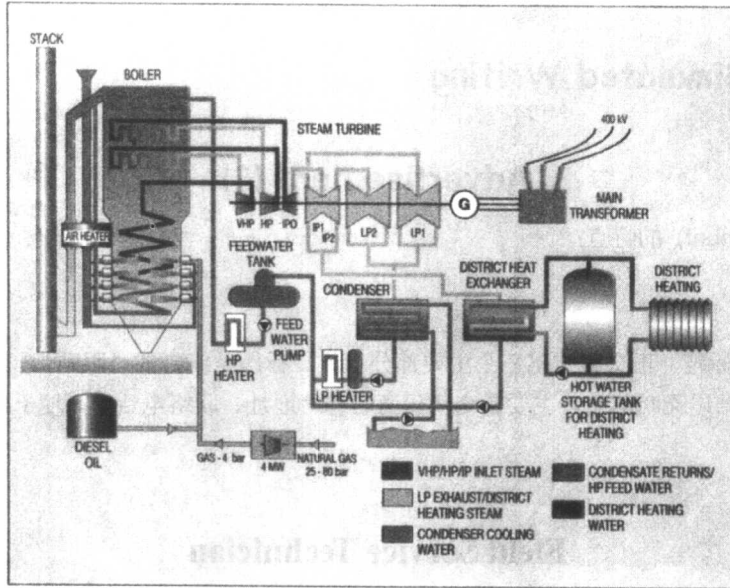
Human Resources

14356 Garfield Ave.

Paramount, CA 90723

Fax: (549) 200-1346

## 8 Unit 1 Specific IT Products in Plant Operations



电力生产流程图

## Part III

## Communicative Speaking

## Interview

Listening In  
EXERCISE 9

You are going to hear a short passage about the most frequent questions put up by some of America's toughest interviewers. As you listen, tick the corresponding letter of the questions you have heard.

- What exactly do you want from us? Describe your ideal job.
- Why did you leave your last job?
- Why are you switching careers?
- What's your greatest accomplishment?
- What are your weaknesses?
- Will you get along with your potential boss?
- How old are you? How is your health? Are you married? Any children?

## Speaking Out

## Sample dialogue 1

- Good afternoon.
- Good afternoon.

A: Shall we start ?

B: Yes, I'd like to start by introducing myself to you.

A: Please go ahead.

B: I graduated from Xinxin Electric Power College. My major is relay protection in electric power system.

A: Would you please name some of the main courses you took at college ?

B: Certainly. I have taken...

A: Can you use a computer?

B: Yes, I'm quite familiar with up-to-date word processing software and other office software.

### Sample dialogue 2

A: Now please tell me what qualifications you have got.

B: I graduated from X Electric Power University in 1996. I majored in automation control system.

A: What foreign language do you speak ?

B: I can speak English fluently.

A: What about reading and writing?

B: I'm also good at them.

A: Why did you leave your last job ?

B: I'm at the stage in my career where I want to add public relations to my background, and your company is the leader in this field.

A: Where do you want to be five years from now?

B: I'd like to be a senior public relations officer.

### Sample dialogue 3

A: Well, we know the qualifications you have. One more question. Why are you switching your careers?

B: My desire is to become a designer. I'm experienced at drawing and I'm quite familiar with such software as PhotoShop, 3D Max and Authorware. Working in your company would help me achieve my long-term goal.

A: Have you got any qualification certificates?

B: Yes. I have got a Certificate of Practical English Test for Colleges and a Certificate of Computer Band 2.

A: Good. How much salary would you expect each month?

B: I would expect 3 000 yuan per month.

A: Would you accept it if we offer to pay you 1 500 yuan per month for the first three months on probation?

B: I would accept it.

A: I wonder if you'd mind starting next week?

B: No problem. I'll be here next week.





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### Sample dialogue 4

A: Excuse me. I'm a graduate from X University. I'm interested in the post you advertised in *News Weekly* last week.

B: Yes. Take a seat, please.

A: Thank you.

B: Well, what exactly do you want from us? Please describe your ideal job?

A: I'd like to have a job which is full of challenge and requires skills. And also I hope to have colleagues who are easy to get along with.

B: Can you travel and work overtime?

A: Yes. I can.

B: Please fill in this application form and we will inform you of our decision in one week.

A: Thank you. Good-bye.

B: Good-bye.

### Useful expressions and patterns

1. I graduated from ...
2. I'm at the stage in my career ...
3. I'm experienced at ...
4. Working in your company would help me achieve my long-term goal.
5. I'd like to have a job which is full of challenge and requires skills.

### EXERCISE 10

#### Substitution drills.

1. I can speak English fluently.  
read and write English.  
use a computer.

2. I'm experienced at drawing.  
repairing.  
debugging.

3. I'm interested in the job as a software engineer.  
a senior public relations officer.  
an operator.

4. My major is relay protection in electric power plant.  
electric generation and electric system.  
communication in electric power system.  
centralized control in electric power plant.