Career Paths: Software Engineering is a new educational resource for software engineering professionals who want to improve their English communication in a work environment. Incorporating career-specific vocabulary and contexts, each unit offers step-by-step instruction that immerses students in the four key language components: reading, listening, speaking, and writing. Career Paths: Software Engineering addresses topics including software development, software testing, the user interface, modeling, and career options.

The series is organized into three levels of difficulty and offers a minimum of 400 vocabulary terms and phrases. Every unit includes a test of reading comprehension, vocabulary, and listening skills, and leads students through written and oral production.

Included Features:
- A variety of realistic reading passages
- Career-specific dialogues
- 45 reading and listening comprehension checks
- Over 400 vocabulary terms and phrases
- Guided speaking and writing exercises
- Complete glossary of terms and phrases

The Teacher's Book contains a full answer key and audio scripts.
The Teacher's Guide contains detailed lesson plans, a full answer key and audio scripts.
The audio CDs contain all recorded material.
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<td>Giving a reminder</td>
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<td>Presentations and Communication</td>
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<td>Education</td>
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<td>Assigning tasks</td>
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<td>User Interface Design 2</td>
<td>Job listing</td>
<td>artistic design, dialog, end user, ergonomics, functionality, groupware, HCI, humanities, layer, MVC paradigm, presentation, Seeheim model, task analysis, UVM, user-centered design</td>
<td>Rating importance</td>
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<td>Journal article</td>
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<td>Making a recommendation</td>
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<td>4</td>
<td>Software Reuse 2</td>
<td>Textbook excerpt</td>
<td>ADL, application generator, code scavenging, domain analysis, instantiate, intermediate product, middleware, MIL, program library, skeleton, template, transformation system, VHLL</td>
<td>Describing ability</td>
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<tr>
<td>5</td>
<td>Software Reliability</td>
<td>Handbook</td>
<td>BM, defensive programming, exception domain, expected exception domain, fault-tolerant, LPM, N-version programming, probability, recovery block, redundancy, reliability, robust programming, software reliability model, standard domain, threshold</td>
<td>Stating a preference</td>
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<td>Software Tools 1</td>
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<td>CASE, city, environment, family, individual, integrated environment, language-centered environment, process-centered environment, process scale, state, tool, toolkit, user scale, workbench</td>
<td>Estimating time</td>
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<td>7</td>
<td>Software Tools 2</td>
<td>Review</td>
<td>AWB, back-end, IPSE, MWB, PCTE, programming environment, PWB, reserved checkout, SSCS, UNIX, unresolved checkout, visual programming environment</td>
<td>Describing necessity</td>
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<td>8</td>
<td>Configuration Management</td>
<td>Email</td>
<td>approve, baseline, CCB, change-oriented, change request, configuration item, configuration management, corresponding, delta, flaw, incorporate, parallel development, retrace, version-oriented, workflow</td>
<td>Describing a process</td>
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<td>Programming Teams</td>
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<td>commitment style, chief programmer team, hierarchical organization, integration style, matrix organization, open structured team, relation style, relation directedness, separation style, specialize in, SWAT team, task directedness</td>
<td>Expressing concerns</td>
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<td>10</td>
<td>Software Quality Control</td>
<td>Report</td>
<td>CMM, common feature, conform to, improve, IEEE Standard for Quality Assurance Plans, ISO 9001, key practice, key process area, maturity level, quality control, quality criteria, quality factor, TQM</td>
<td>Making a realization</td>
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<td>11</td>
<td>Development and Cost</td>
<td>Memo</td>
<td>algorithmic model, budget, base formula, COCOMO, comparison method, Delphi-method, development time, estimate, KLOC, learning effect, man-month, optimistic, Putnam model, Walston-Felix</td>
<td>Delivering good news</td>
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<td>12</td>
<td>Project Management</td>
<td>Advertisement</td>
<td>allocation problem, critical path, degree of certainty, design problem, exploration problem, Gantt chart, PERT chart, process certainty, product certainty, realization problem, resource certainty, risk factor, risk management, WBS</td>
<td>Summarizing a point</td>
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<td>13</td>
<td>Ethics</td>
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<td>adequate, best interests, deceptive, ensure, ethics, health, integrity, principle, professional judgment, public interest, safety, standard, unethical, workflow</td>
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<td>Cloud Computing: SaaS &amp; PaaS</td>
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<td>bandwidth, browser, cloud computing, computing platform, distribution, metered fee, online, PaaS, pay-as-you-go, SaaS, software as a product, software license, software on demand</td>
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<td>15</td>
<td>Career Options</td>
<td>Webpage</td>
<td>advance, ACM, analyst, architect, contractor, developer, educator, freelancer, IEEE, manager, membership, professional development, researcher, software life cycle, technical support, tester</td>
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System Software 2

Security threats can cause serious damage to your computer. SharpAlert offers excellent security software to keep your computer safe.

**Antivirus Software** — Don’t let unauthorized parties steal your personal information with spyware! And stop viruses before they destroy your computer. The SharpAlert Exviro package protects against all types of malware. It **quarantines** infected files. Then threat **removal** just takes one click.

**Firewalls** — Remember to update network security programs regularly. SharpAlert’s Steelbar firewall **permits** access only to authorized users. It will **deny** access to anyone without proper credentials. Make sure your confidential information stays confidential!

Get ready!

1. **Before you read the passage, talk about these questions.**
   1. What are some threats to computer security?
   2. How can users protect computers from security threats?

2. **Read the webpage. Then, mark the following statements as true (T) or false (F).**
   1. The company’s Exviro package includes protection against spyware.
   2. The antivirus software destroys files that are infected by malware.
   3. The webpage recommends using antivirus software instead of firewalls.

Vocabulary

3. Write a word that is similar in meaning to the underlined part.
   1. The purpose of the software is to **not allow** access to unauthorized users.
   2. The system **allows** access only after users enter their passwords.
   3. The engineer installed a **program** that protects a computer from various threats on the company’s systems.
4 Place the correct words and phrases from the word bank under the correct headings.

**Word Bank**
- removal
- malware
- virus
- spyware
- quarantine
- firewall
- antivirus software

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5 Listen and read the webpage again. What is the difference between spyware and viruses?

**Listening**

6 Listen to a conversation between a company manager and a software engineer. Choose the correct answers.

1 What is the main idea of the conversation?
   - A how much damage was caused by a virus
   - B which information was stolen by a spyware program
   - C why the company should update its antivirus software
   - D what caused a failure in the company’s firewall

2 What prediction does the woman make?
   - A Unauthorized users will attempt to access the network again.
   - B The company’s systems will be damaged by a virus.
   - C A new firewall will probably not be effective.
   - D The company’s files will need to be quarantined.

7 Listen again and complete the conversation.

**Engineer:** Well, Mr. Clay, I 1 __________ __________ from your company’s system.

**Manager:** Oh, thank you! Our systems contain a lot of 2 __________ __________.

**Engineer:** Yes, I can see that. If you don’t update your 3 __________ __________, you could really be in trouble.

**Manager:** Really? You think this will 4 __________ __________?

**Engineer:** Whoever wanted your information is likely to 5 __________ __________.

**Manager:** I guess we’d 6 __________ __________ the company’s antivirus software, then.

**Speaking**

8 With a partner, act out the roles below based on Task 7. Then, switch roles.

**USE LANGUAGE SUCH AS:**

- If you don’t ... you could ...
- You think this will ...
- I guess we’d better ...

**Student A:** You are an engineer. Talk to Student B about:
   - security threats to his or her system
   - consequences of the threats
   - ways to prevent security problems

**Student B:** You are a company manager. Talk to Student A about security threats to your system.

**Writing**

9 Use the conversation from Task 8 to complete the email from a software engineer.

**Dear Mr. Greene,**

I am concerned about your company’s computer security. When I inspected your systems, I discovered __________. This is dangerous because __________. To keep your systems safe, I recommend __________. This will help because __________. Let’s meet to discuss this further.

Danielle Corwin
SharpAlert Computing Systems
Get ready!

1 Before you read the passage, talk about these questions.
   1 What are some ways that software is distributed?
   2 How do users pay for cloud computing services?

Reading

2 Read the journal article. Then, choose the correct answers.
   1 What is the main idea of the article?
      A the challenges of developing cloud computing software
      B recent changes in cloud computing technology
      C the history of the development of cloud computing
      D an overview of cloud computing models
   2 What is true of SaaS users?
      A They access software that is provided by a network host.
      B They rent software from a cloud computing provider.
      C They purchase software from the developer.
      D They need a specialized web browser.
   3 Which of the following is NOT required for users to access a cloud?
      A web browser
      B software license
      C a fee
      D a large bandwidth

Vocabulary

3 Match the words (1-8) with the definitions (A-H).

1 ___ cloud computing  
2 ___ distribution  
3 ___ software license  
4 ___ computing platform  
5 ___ browser  
6 ___ online  
7 ___ bandwidth  
8 ___ software on demand

A a software system that is used to gain access to information on the internet
B being connected to the internet
C a measure of a computer system’s capacity to send and receive information
D a combination of hardware and system software that allows an application to run
E a model in which software is rented from a provider
F a legal agreement which grants the buyer of a program the right to use it
G the action of supplying a product or service
H a model in which computing is delivered as a service rather than as a product
Choose the sentence that uses the underlined part correctly.

1. A In PaaS, computer software can be rented.
   B A computer must be equipped with SaaS to access a web browser.

2. A The company uses a pay-as-you-go system, requiring a set monthly fee.
   B The customer pays a metered fee, so he only pays for the services he uses.

3. A To access data storage, a computer must have software on demand.
   B Some software developers only supply software as a product.

Listen and read the journal article again. What must a computer have in order to access the cloud?

Listening

Listen to a conversation between a manager and an engineer. Mark the following statements as true (T) or false (F).

1. ___ The man had a negative experience with cloud computing.
2. ___ The company recently requested a new software license.
3. ___ The woman recommends SaaS.

Listen again and complete the conversation.

Manager: Hey, Tonya. I’m thinking about upgrading the company’s network, and I was wondering what
1. __________ __________ __________ .

Engineer: SaaS is a networking model.
Manager: I don’t know much about computers. What does that mean?
Engineer: Let me explain the basics. SaaS stands for Software as a Service. It is a model that
2. __________ __________ __________ .

Manager: What’s cloud computing?
Engineer: It’s a 3. __________ __________ __________ __________ services.
Manager: So it’s a way to access information?
Engineer: Yes, partly. Clients purchase the rights to a 4. __________ __________ . Then they share that software with their users.
Manager: Okay. How 5. __________ __________ for that, though?
Engineer: Clients typically pay regular fees. Some companies charge users metered fees, while others 6. __________ __________ “ __________ “ __________ “ __________ . It just depends on your needs.

Speaking

8. With a partner, act out the roles below based on Task 7. Then, switch roles.

USE LANGUAGE SUCH AS:

I’m thinking of ...
What are your thoughts on ..?.
Some prefer ...

Student A: You are a manager. Talk to Student B about:
- elements of cloud computing
- how the services work
- his or her recommendation

Student B: You are an engineer. Talk to Student A about elements of cloud computing.

Writing

9. Use the journal article and conversation from Task 8 to write a review of SaaS and PaaS. Include: user options for accessing information, how users can pay for services, and what computer requirements users need to access the cloud.
accounting [N-UNCOUNT-U8] Accounting is the process of recording and managing financial transactions.
add [V-T-U11] To add a number to another number is to increase it by that amount.
anti-virus software [N-UNCOUNT-U6] Anti-virus software is a type of security software that removes malware, or prevents its installation.
application software [N-UNCOUNT-U8] Application software is any software that is used to perform a single task, or perform multiple tasks that are related to each other.
artifact [N-COUNT-U1] An artifact is a feature of software that determines its type or function.
bachelor's degree [N-COUNT-U15] A bachelor’s degree is a certificate indicating that someone has completed an educational program, usually after four years of study, and is qualified to practice a particular profession.
bioinformatics [N-UNCOUNT-U9] Bioinformatics is the application of computer software to the field of biology.
BIOS [N-COUNT-U5] A BIOS (Basic Input Output System) is a set of instructions in firmware that controls a device’s input and output operations.
body language [N-UNCOUNT-U14] Body language is communication that is expressed with positions of the body instead of words, including hand gestures and facial expressions.
calculus [N-UNCOUNT-U15] Calculus is a complex branch of mathematics that deals with rates of change and advanced measurements of physical properties.
case [N-COUNT-U4] A case is a protective enclosure that contains the parts of something.
CD/DVD drive [N-COUNT-U4] A CD/DVD drive is a device that reads and writes data on compact discs and digital versatile discs.
circuit analysis [N-UNCOUNT-U15] Circuit analysis is the study of how electrical components conduct currents.
compiler [N-COUNT-U7] A compiler is a program that decodes instructions written in a higher order language.
computer [N-COUNT-U2] A computer is an electronic instrument for storing data and performing various electronic tasks and functions.
computer architecture [N-UNCOUNT-U15] Computer architecture is the physical configuration of computers from hardware components.
computer engineering [N-UNCOUNT-U15] Computer engineering is a branch of engineering that includes computer science and electrical engineering, and usually involves designing both hardware and software components for computers.
computing cluster [N-COUNT-U2] A computing cluster is an extremely powerful computer designed to process large quantities of data.
control [V-T-US] To control something is to have power over its actions or functions.
control system [N-COUNT-U15] A control system is a device or set of devices that regulates the actions of other devices.
convert [V-T-U12] To convert something is to change it into a different form or system of measurement.
cost analysis [N-COUNT-U9] A cost analysis is a report that explains expenses.
cover [N-COUNT-U4] A cover is something that is placed over something else for protection.
cursor [N-COUNT-U10] A cursor is a movable icon on a computer screen that indicates the point where user input will appear.
data management [N-UNCOUNT-U9] Data management is the ability to track and evaluate information.
debugger [N-COUNT-U7] A debugger is a computer program that detects and corrects errors in other computer programs.
decimal number [N-COUNT-U12] A decimal number is a value in a numbering system based on the number 10, with numbers on both sides of the decimal point.
decline [N-COUNT-U13] A decline is the process of becoming worse or smaller in amount.
decrease [V-I-U13] To decrease is to become smaller.
denominator [N-COUNT-U12] A denominator is the number that is below the line in a fraction. In the fraction 1/2, the denominator is 2.
Career Paths: Software Engineering is a new educational resource for software engineering professionals who want to improve their English communication in a work environment. Incorporating career-specific vocabulary and contexts, each unit offers step-by-step instruction that immerses students in the four key language components: reading, listening, speaking, and writing. Career Paths: Software Engineering addresses topics including software development, software testing, the user interface, modeling, and career options.

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• Guided speaking and writing exercises
• Complete glossary of terms and phrases

The Teacher’s Book contains a full answer key and audio scripts.
The Teacher’s Guide contains detailed lesson plans, a full answer key and audio scripts.
The audio CDs contain all recorded material.