

ANSWER KEY

Unit 1

2a

- 1 navigation
- 2 (motorized) delivery vehicles
- 3 (floating) motor cars
- 4 drift
- 5 main keyboard
- 6 innovative uses of

b

- 1 uses
- 2 use
- 3 user's, useful
- 4 use

3a

- 2 d 3 b 4 f 5 a 6 c

4a

- 1 allows
- 2 prevents
- 3 ensures, enables

b

- 1 allows / enables
- 2 ensures
- 3 prevents

c

- 1 allow/enables
- 2 allow/enables
- 3 ensure
- 4 allow/enables
- 5 prevent

6a

See text in Exercise 6b on page 8

c

- 3 f 5 a 4 b 5 g 6 h 7 c
6 d 8 f

7a

- 2 support
- 3 attached
- 4 raised
- 5 power
- 6 ascend
- 7 transport

c

The notes are missing articles (a/an, the) and some auxiliary verbs (is, are, be).

8a

See audiotape 1.3 on page 86

b

- 1 By a floating structure.
- 2 To attach the base to the seabed
- 3 Ships would carry them
- 4 Collisions between the cable and space debris
- 5 The anchors would be raised and the station would be moved.

9a

Suggested answer

The anchoring system

The wind loads on the cable will be huge. What are the implications for the anchoring system? The base will need to be moved continuously and sometimes urgently. What temporary system could be used to hold the base in position? Should the base be in shallow water near the coast, or in deep water further offshore? The choice will have an impact on the design of the anchor system.

The propulsion system

Will the weight of the cable allow the base to be moved by its own propellers, or will a more powerful system for propulsion and control be required? For example, an external power source.

b

Suggested answers

Anchor system

It will be possible to anchor the base more securely in shallow water, near the coast. A permanent anchor structure could be built on the ocean bed, in shallow water. The base station could then be fixed securely to it with cables. If several anchor structures are built at different locations along the coast, the base station can be moved between them.

Propulsion system

Two powerful boats used for pulling them could be used as an external power source. However, the base station could be driven by its own propellers. The large, powerful engines needed to propel it would be heavy, but that isn't necessarily a disadvantage, as extra mass, and therefore extra inertia, would help to make the base more stable.

10

A technical advantage is a type of technology that is superior in some way – for example, more efficient, more powerful or more reliable – compared with a related type of technology – for example, a competing product (one sold by another company) – or compared with an earlier model of the same product.

11a

It's a flat belt for lifting elevators which is used instead of a cable. Compared with cables, the Gen2 system has a number of advantages.

b

- 2 c 3 b 4 f 5 c 6 a

c

- 2 reduces
- 3 conventional
- 4 reduce
- 5 enhance
- 6 conventional
- 7 superior
- 8 eliminates

12a

- 1 enhanced
- 2 reduced
- 3 elevated
- 4 conventional
- 5 superior

b

- 1 c 2 b 3 a 4 d

c

- 2 dramatically
- 3 entirely
- 4 extremely
- 5 considerably
- 6 fights
- 7 exceptionally
- 8 significantly

d

- 1 entirely, totally
- 2 considerably, dramatically
- 3 exceptionally, highly

14a

- 1 That you shouldn't use jargon or it will sound like nonsense and that technical concepts can be difficult to explain, even using everyday language.
- 2 Explanations that are boring.
- 3 Speaking to an adult as if you're talking to a child.

c

Richard suggests using everyday language to avoid explanations not being understood; using some jargon and then explaining it using everyday language to avoid sounding patronising; explaining difficult concepts by comparing technical points with things in everyday life to illustrate them, and using some humour to avoid sounding dull.

15b

- 2 A column going down into the ground
- 3 So tall
- 4 Concrete poured on the construction site in its final position
- 5 Made at a factory, away from the site
- 6 So heavier in
- 7 Like a giant hammer
- 8 Like a giant drill
- 9 A kind of clay suspension / a sort of mud

d

- 1 put simply, in other words, basically
- 2 effectively, essentially, basically
- 3 what we call, what we refer to as
- 4 if you imagine, if you picture

16

Suggested answers

There are two types of pile foundation: end-bearing piles and friction piles. Essentially, end-bearing piles are used when you have soft ground which is on top of hard ground or rock. Basically, the piles go through the soft ground and sit on the hard ground below. It's a bit like building over water. The soft ground is like water, which can't support anything, and the hard ground below it is like the seabed. Put simply, the piles are like stilts. Friction piles are different. They're used when there's no hard ground. In simple terms, the sides of the pile grip the soft ground around them. If you picture a nail in a piece of wood, it's the same thing. The nail is gripped by the wood around it. Sometimes the bottoms of friction piles are made wider. Imagine a leg with a foot at the bottom, it's the same principle.

Unit 2

2a

- 2 Glass
- 3 Copper
- 4 Aluminium
- 5 Timber
- 6 Rubber
- 7 Plastic

b

- 2 a 3 b 4 f 5 c 6 h
7 e 8 g

c

- 2 with
- 3 from
- 4 from
- 5 with
- 6 of
- 7 of
- 8 from

3b

The main point that Irina makes is that it's important to consider the total environmental impact of a product, including producing it (green), using it (brown) and recycling it (gold-leaf). She gives the example of an energy-saving light bulb.

Cambridge English For Engineering Answer Key

Wolfgang Guggemos



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Professional English in Use: Engineering Mark Ibbotson, 2009 Authored by a qualified engineer with professional experience in both engineering and English language teaching the book covers essential technical English vocabulary in context Over 1000 words and phrases are presented to help engineers or engineering students better communicate in English on the job using a format designed to make self study more intuitive words and expressions are explained on the left hand pages and practice activities are on the right hand pages Suitable for Upper Intermediate level learners of English CEF B1 B2

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 - Advantages of eBooks Over Traditional Books
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 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
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 - Popular eBook Platforms
 - Features to Look for in an Cambridge English For Engineering Answer Key
 - User-Friendly Interface
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 - Cambridge English For Engineering Answer Key User Reviews and Ratings
 - Cambridge English For Engineering Answer Key and Bestseller Lists

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 - Highlighting and Note-Taking Cambridge English For Engineering Answer Key
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 - Participating in Virtual Book Clubs
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 - Creating a Diverse Reading Collection Cambridge English For Engineering Answer Key
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 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Cambridge English For Engineering Answer Key
 - Setting Reading Goals Cambridge English For Engineering Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Cambridge English For Engineering Answer Key
 - Fact-Checking eBook Content of Cambridge English For Engineering Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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