ENGLISH IN FOCUS

English in Workshop Practice

ALAN MOUNTFORD

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English in Focus: Workshop Practice

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ENGLISH IN FOCUS

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A. M.

Introduction

The aim of this book is to develop a basic knowledge of how English is used for communication in workshop practice. It is intended for students who already know how to handle the common English sentence patterns but who need to learn how these patterns are used in technical writing to convey information about workshop materials and processes.

The exercises direct the student's attention to certain features of English which are specific to technical writing. The aim is to provide the student with a strategy for reading more difficult technical texts and to prepare him for making effective use of English in his own writing.

Although the emphasis is on English as a medium of expression in the workshop the basic elements of the language have not been neglected. Pattern practice is provided, particularly in the grammar section of each unit, but this kind of work is always presented in relation to a technical context and not simply as an exercise in making sentences for their own sake.

This book does not aim at teaching technical subject matter, nor does it aim at teaching grammatical structures and vocabulary as such. Its purpose is to show how language is used to convey technical information and so to give students a grounding in one particular set of communication skills in English.

Contents

Intr	oduction and the metallimodal most sneitgines by gride W of arranged	Xi
Uni	t 1 Calipers AD COMPUTED THE RESIDENCE SAMMASO	-1
	READING AND COMPREHENSION SOLUTIONS TO COMPREHENSION PROBLEMS EXERCISE A: Contextual reference EXERCISE B: Rephrasing EXERCISE C: Relationships between statements EXERCISE D: Labelling of diagrams EXERCISE E: The definition of objects in terms of class and use EXERCISE F: General statements	1 2 3 4 4 5 5 8
II:	GRAMMAR EXERCISE A: Forms of definitions EXERCISE B: The use of nouns and adjectives in definitions (Shapes) EXERCISE C: The use of nouns and adjectives in general statements (Dimensions)	9 9 10
Uni	t 2 The micrometer and the manual as thould be set 1932	14
I. 18	READING AND COMPREHENSION SOLUTIONS TO COMPREHENSION PROBLEMS EXERCISE A: Contextual reference EXERCISE B: Rephrasing EXERCISE C: Labelling a diagram EXERCISE D: Description of a micrometer through the selection of words from alternatives	

vi Contents

	EXERCISE E: Description of objects in terms of their main parts	17
	and construction EXERCISE F: Re-ordering of sentences to build descriptive	17
	paragraphs	20
	EXERCISE G: Definitions plus descriptions of objects	21
II:	GRAMMAR The passive	23
	The second of the second second	
Uni	it 3 Bench work	27
I:	READING AND COMPREHENSION	27
	SOLUTIONS TO COMPREHENSION PROBLEMS	28
	EXERCISE A: Contextual reference	30
	EXERCISE B: Rephrasing	31
	EXERCISE C: Relationships between statements	31
	EXERCISE D: Definitions of operations	31
	EXERCISE E: Generalizations	33
	EXERCISE F: Writing descriptions from information in a table	35
11.	GRAMMAR	36
-	EXERCISE A: The use of to + infinitive in the expression of	50
	purpose	36
	EXERCISE B: The use of in order to + infinitive and so as	30
	to + infinitive in the expression of purpose	37
		31
	EXERCISE C: The statement of purpose in the first part of a sentence	38
	EXERCISE D: The use of so that + clause in the expression of	20
	result and purpose	39
	GBAMMAR.	
	it 4 Metals and their properties beautiful and their properties beautiful and their properties	1
Uni	it 4 Metals and their properties but an an an an and a distribution of the second at	41
I:	READING AND COMPREHENSION	41
i i	SOLUTIONS TO COMPREHENSION PROBLEMS	42
	EXERCISE A: Contextual reference	44
	EXERCISE B: Rephrasing	44
	EXERCISE C: Relationships between statements	44
	EXERCISE D: Classification and levels of generalization	45
	EXERCISE E: Classification according to defining characteristics	48
-	STATE OF THE SWITHOUSE NOT INDEHNISATION OF SKIND TOX	
11:	GRAMMAR Sometime tanteemed on salvours	51
	EXERCISE A: Defining and non-defining relative clauses	51
	EXERCISE B: Short-form relative clauses	53

Contents	vii
Unit 5 The forge vertility and the regular patters 2	56
I: READING AND COMPREHENSION SOLUTIONS TO COMPREHENSION PROBLEMS EXERCISE A: Contextual reference EXERCISE B: Rephrasing EXERCISE C: Relationships between statements EXERCISE D: Restatements EXERCISE E: Labelling of diagrams EXERCISE F: Inductions, deductions and predictions: the properties of metals	57 60 60 60
II: GRAMMAR EXERCISE A: Relative clauses introduced by a preposition EXERCISE B: Noun+noun constructions EXERCISE C: Participle+noun constructions EXERCISE D: Complex noun phrases	66 66 67 68 69
Unit 6 Heat treatment	71
1: READING AND COMPREHENSION SOLUTIONS TO COMPREHENSION PROBLEMS EXERCISE A: Contextual reference EXERCISE B: Rephrasing EXERCISE C: Relationships between statements EXERCISE D: Description of an operation and its result EXERCISE E: Instructions based on descriptions	71 72 73 73 74 74 78
II: GRAMMAR EXERCISE A: Time expressions: after, before, when, as soon as, while, until EXERCISE B: Time expressions: then, during, throughout, prior to, first EXERCISE C: Short-form time clauses	80 80 81 82
Unit 7 Sheet metal work	83
I: READING AND COMPREHENSION SOLUTIONS TO COMPREHENSION PROBLEMS EXERCISE A: Contextual reference EXERCISE B: Rephrasing EXERCISE C: Relationships between statements EXERCISE D: Restatements using expressions of time EXERCISE E: Extracting information from the reading text EXERCISE F: Writing instructions for illustrations	83 84 85 86 86 86 87 87
EXERCISE G: Writing recommendations and rules	90

94

II: GRAMMAR: Modal verbs

viii Contents

Unit 8 Reading passages with comprehension questions		97
PASSAGE I: Soldering	OHIGA	97
PASSAGE II: Welding		99
PASSAGE III: Marking out		101
PASSAGE IV: The drilling machine		104
FURTHER COMPREHENSION EXERCISES	CO BRIDE	107
Instructions, descriptions and reports		107

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1 Calipers

I READING AND COMPREHENSION

¹Calipers are instruments which are used for measuring the dimensions of small objects. ²They can be used to measure diameters of metal bars or tubes. 3There are two kinds of calipers. 4One kind is called outside calipers. ⁵They are used to measure outside, or external, diameters. ⁶The other kind is used to measure inside, or internal, diameters. ⁷They are known as inside calipers.

Study the following statements carefully and write down whether they are true or not true, according to the information expressed in sentences 1-7 above. Then check your answers by referring to the solutions at the end of the passage.*

- (a) Outside calipers are used to measure external diameters.
- (b) External calipers can be used to measure the external dimensions of any metal object.
- (c) Calipers can be used to measure the diameters of metal tubes.

⁸Both kinds consist of two pieces of metal which are joined together at the top. They are called legs and are pointed at the ends. 10 The legs of outside calipers are curved and turn inwards at the points. 11 Those of inside calipers are straight and turn outwards at the points. 12 Measurements are taken between the points and are read off on a rule.

- (d) Caliper legs are pointed at the ends.
- (e) Inside calipers have straight legs.
- (f) The legs of outside calipers point inwards at the ends.
 - * The following symbols are used in the solutions:

i.e. that is to say a shape of a purious house of the salidate of the boll of I

e.g. for example

= equals/means the same as

≠ does not equal/does not mean the same as

: therefore

¹³The joint at the top of the legs acts as a hinge. ¹⁴In some cases this joint is stiff. ¹⁵The legs are kept open by means of friction. ¹⁶Not all calipers are of this stiff-jointed kind. ¹⁷Some calipers have a spring which joins the legs together. ¹⁸They are known as spring calipers. ¹⁹The legs are opened and closed by turning a nut on a screw. ²⁰Calipers of this kind are more easily adjusted than the stiff-jointed kind.

- (g) Spring calipers are opened by turning a nut on a screw.
- (h) All calipers have a stiff joint at the top of the legs.
- (i) The legs of spring calipers are kept open by means of friction.
- (j) Spring calipers are easier to adjust than stiff-jointed calipers.

Solutions

- (a) One kind is called outside calipers. (4)

 They are used to measure [X outside], or [Y external], diameters. (5)

 X, or Y, ... i.e. Y is another word for X.
 - : outside diameters = external diameters
- :. Outside calipers are used to measure external diameters.
- (b) Calipers are instruments which are used for measuring the dimensions of small objects. (1)
 small objects ≠ any objects
- :. It is NOT TRUE to say that external calipers can be used to measure the external dimensions of any metal object.
- (c) They (i.e. calipers) can be used to measure diameters of metal bars or tubes.
 (2) metal bars or tubes = both metal bars and metal tubes (cf. (a))
- :. Calipers can be used to measure diameters (=the diameters) of metal tubes.
- (d) ... two strips of metal are joined together at the top. (8)

 They are called legs ... (9)
- i.e. Caliper legs are joined together at the top.
 ... and are pointed at the ends. (9)
- i.e. Caliper legs are pointed at the ends.
- (e) Those (i.e. the legs) of inside calipers are straight. (11)
- = Inside calipers have straight legs.
- (f) The legs of outside calipers are curved and turn inwards at the points. (10)
- i.e. The legs of outside calipers turn inwards at the points.

 turn inwards at the points = point inwards at the ends (see (d))
- i.e. The legs of outside calipers point inwards at the ends.

- (g) They are known as spring calipers. (18) The legs are opened and closed by turning a nut on a screw. (19)
- i.e. The legs of spring calipers are opened . . . by turning a nut on a screw.
- Spring calipers are opened by turning a nut on a screw.
- (h) The joint at the top of the legs acts as a hinge. (13) In some cases this joint is stiff. (14) some ≠ all
- Not all calipers are of this stiff-jointed kind. (16)
- i.e. Not all calipers have stiff joints.
- e.g. Some calipers have a spring which joins the legs together. (17)
- .. It is NOT TRUE to say that all calipers have a stiff joint at the top of the legs.
- The legs are kept open by means of friction. (15) (i)
- i.e. The legs of stiff-jointed calipers (16) are kept open by means of friction. The legs of spring calipers (18) are opened or closed by turning a nut on a screw. (19)
- The legs of spring calipers are NOT kept open by means of friction.
- Calipers of this kind (i.e. spring calipers (18)) are more easily adjusted (i) than the stiff-jointed kind. (20) are more easily adjusted = are easier to adjust
- i.e. Spring calipers are easier to adjust than stiff-jointed calipers.

EXERCISE A Contextual reference

- 1. In sentence 2, they refers to:
 - (a) objects
 - (b) calipers
 - (c) dimensions
- 2. In sentence 5, they refers to:
 - (a) two kinds
 - (b) outside calipers
 - (c) calipers
- 3. In sentence 7, they refers to:
 - (a) calipers which measure internal diameters
 - (b) calipers which measure external diameters
- 4. In sentence 9, they refers to:
 - (a) both kinds
 - (b) the ends
 - (c) two pieces of metal

- 4 English in Workshop Practice
- 5. In sentence 11, those refers to:
 - (a) the points and the second second
 - (b) calipers
 - (c) the legs .
- 6. In sentence 18, they refers to:
 - (a) calipers which have a spring
 - (b) the legs
 - (c) all calipers

EXERCISE B Rephrasing

Compare these sentences:

- (i) Outside calipers can be used to measure the distance between the outsides of a metal bar.
- (ii) Outside calipers can be used to measure the external diameter of a metal bar.

These two sentences mean the same thing. The second sentence contains an alternative form used in the text. Now re-write the following, using words and constructions from the text to replace those printed in italics.

- 1. The length and width of a small metal object can be measured by using calipers.
- 2. The legs of inside calipers curve away from each other at the points.
- 3. Some calipers have a spring which joins the legs together, but others have a joint at the top of the legs which is stiff.
- 4. Spring calipers are opened and closed more easily than stiff-jointed calipers.

EXERCISE C Relationships between statements

In this book you will meet many words and phrases which can be used to connect statements. Two of the most common are:

(i) for example

(ii) because

Look at the following:

- (i) [a] Calipers are instruments which are used for measuring the dimensions of small objects. (1)
 - [b] They can be used to measure diameters. (2)
 - [a+b] Calipers are instruments which are used for measuring the dimensions of small objects. For example, they can be used to measure diameters.
- (ii) [a] One kind is called outside calipers. (4)
 - [b] They are used to measure outside, or external, diameters. (5)
 - [a+b] One kind is called outside calipers because they are used to measure outside, or external, diameters.

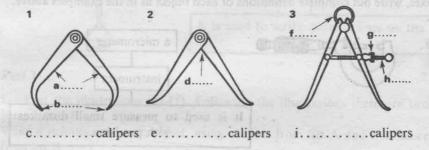
In (ii), statement [b] gives the reason why statement [a] is true.

Now place the following words or phrases in the sentences indicated:

- (a) for this reason (7)
- (e) for example (17)
- (b) but (10+11) (f) therefore (18)
- (c) as a result (15) (d) however (16)
- (g) consequently (20)

EXERCISE D Labelling of diagrams

Write down the names of the calipers illustrated below and of the parts indicated.

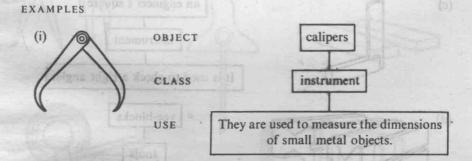


EXERCISE E The definition of objects in terms of class and use

Part 1

We can define an object by saying

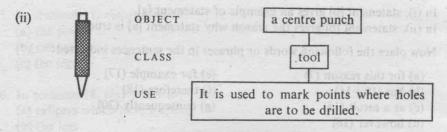
- (a) what class of objects it belongs to, and
- (b) what we use it for.



DEFINITION

Calipers are instruments which are used to measure the dimensions of small metal objects.

6 English in Workshop Practice



DEFINITION

A centre punch is a tool which is used to mark points where holes are tobe drilled.

Below are illustrations of common objects. Using the information in the boxes, write out complete definitions of each object as in the examples above.

