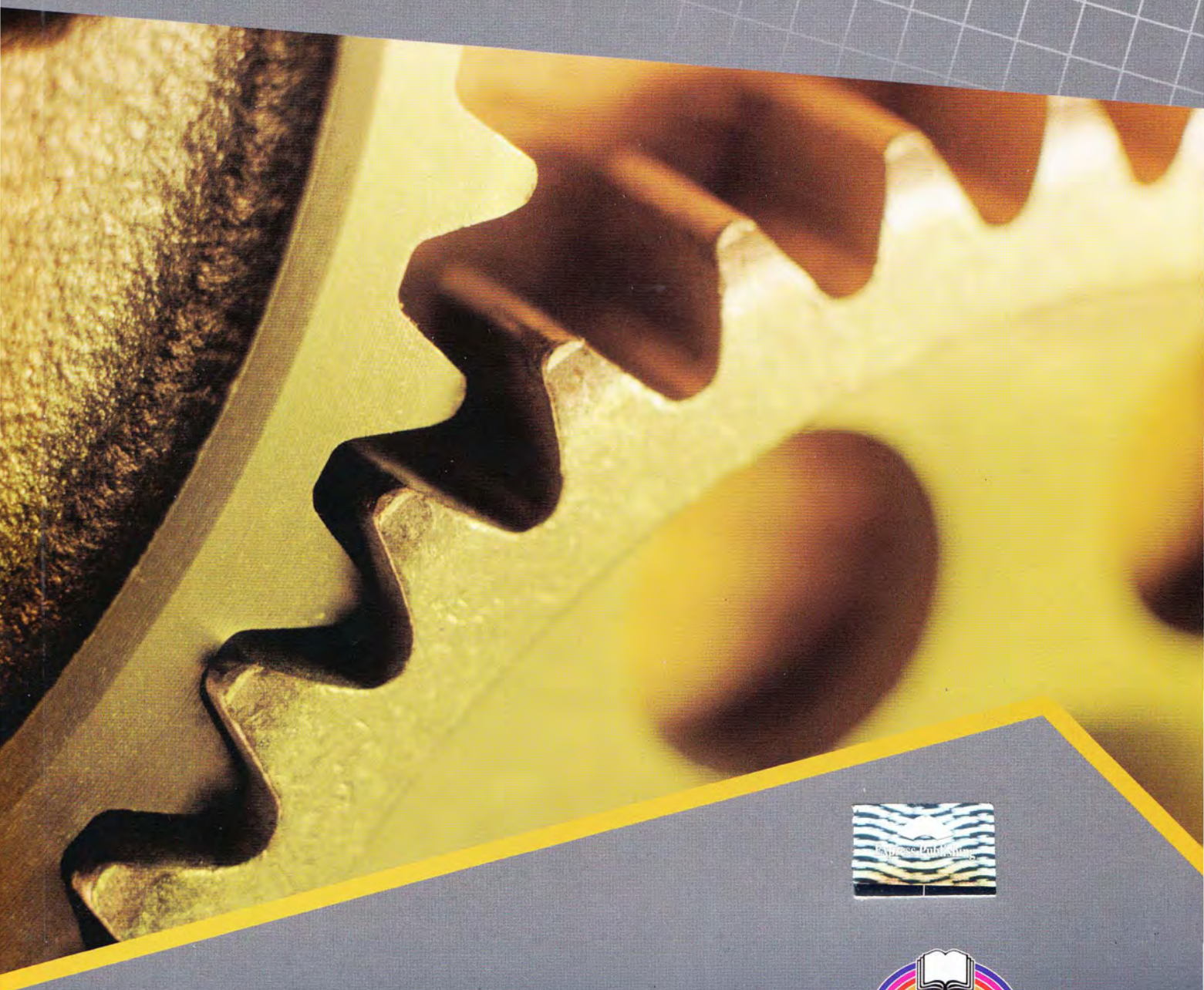


**CAREER
PATHS**

Mechanics

Jim D. Dearholt



Express Publishing

Published by Express Publishing

**Liberty House, Greenham Business Park, Newbury,
Berkshire RG19 6HW**

Tel.: (0044) 1635 817 363

Fax: (0044) 1635 817 463

e-mail: inquiries@expresspublishing.co.uk

<http://www.expresspublishing.co.uk>

© Express Publishing, 2012

Design and Illustration © Express Publishing, 2012

Color Illustrations: Alex, Victor © Express Publishing, 2012

First published 2012

Made in EU

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, photocopying, or otherwise, without the prior written permission of the publishers.

This book is not meant to be changed in any way.

ISBN 978-1-78098-621-0

Acknowledgements

Authors' Acknowledgements

We would like to thank all the staff at Express Publishing who have contributed their skills to producing this book. Thanks for their support and patience are due in particular to: Alex Newton (Editor in Chief); Sean Todd (senior editor); Steve Miller (editorial assistant); Richard White (senior production controller); the Express design team; Sweetspot (recording producers). We would also like to thank those institutions and teachers who piloted the manuscript, and whose comments and feedback were invaluable in the production of the book.

Every effort has been made to trace all the copyright holders. If any have been inadvertently overlooked, the publishers will be pleased to make the necessary arrangements at the first opportunity.

**CAREER
PATHS**

Mechanics

Book

1

Jim D. Dearholt



Express Publishing

Scope and sequence

Unit	Topic	Reading context	Vocabulary	Function
1	Hand tools 1	Advice column	hand tools, tool kit, Phillips screwdriver, flathead screwdriver, wrench, adjustable, slip-joint pliers, long-nose pliers, claw hammer, utility knife, retractable	Asking for advice
2	Hand tools 2	Website	wire cutter, ball pein hammer, hand saw, hacksaw, sawhorse, socket, socket extension, ratchet wrench, combination wrench, spanner wrench, Allen key, nut driver, pipe wrench	Clarifying information
3	Fasteners	Hardware poster	fastener, screw, sheet metal screw, wood screw, thread, bolt, grade, nut, washer, nail, pin, anchor, clamp, UTS thread, metric thread	Explaining a problem
4	Power tools	Inventory checklist	drill, drill bit, impact wrench, impact socket, air compressor, angle grinder, sander, pneumatic torque wrench, heat gun, shop vac, air ratchet	Talking about capabilities
5	Bench and machine tools	Website	drill press, lathe, rotate, grinding machine, abrasive, bench grinder, sander, bearing press, lift, table saw	Making comparisons
6	Basic actions	Instructions	drive, twist, push, pull, insert, remove, strip, grip, lift, screw, unscrew, flip	Giving instructions
7	Materials	Magazine article	rubber, plastic, glass, steel, leather, cast iron, fiberglass, aluminum, lightweight	Describing materials
8	Numbers	Chart	is, equal, come to, and, plus, add, minus, less, subtract, times, multiplied by, -ths, -hundred	Asking for tools
9	Measurements	Magazine article	micrometer, caliper, metric, imperial, inch, centimeter, millimeter, liter, quart, kilogram, pound, conversion, cubic inch, cubic liter, round off	Describing possibilities
10	Around the shop	Checklist	sink, drain, mat, storage, electrical outlet, fan, solvent tank, lift, pit, bead blaster, work lamp, creeper, computer, printer	Accepting responsibility
11	Types of cars	Advertisement	compact, 4-door sedan, 2-door coupe, station wagon, convertible, minivan, SUV, pickup truck, van, hatchback, sports car	Making recommendations
12	Parts of a car: Exterior	Checklist	hood, bumper, windshield, wipers, mirror, brake light, headlight, taillight, door, grill, fender, spoiler	Listing damage
13	Parts of a car: Interior	Website	bench seat, bucket seat, seat belt, rearview mirror, console, lock, handle, steering wheel, shifter, knob, door panel, window switch	Asking for more detail
14	Gauges and meters	Magazine column	dashboard, fuel gauge, odometer, speedometer, tachometer, temperature gauge, tire pressure gauge, measure, instrument cluster, battery light	Talking about degrees
15	Tires	Guide	tire, jack, tire iron, spare, hubcap, jack up, lower, block, lug nut, lug bolt, loosen, tighten, crank, flat, lug wrench	Checking for required items

Table of contents

Tools

Unit 1 - Hand tools 1	4
Unit 2 - Hand tools 2	6
Unit 3 - Fasteners	8
Unit 4 - Power tools	10
Unit 5 - Bench and machine tools	12

Mechanic basics

Unit 6 - Basic actions	14
Unit 7 - Materials	16
Unit 8 - Numbers	18
Unit 9 - Measurements	20
Unit 10 - Around the shop	22

Auto basics

Unit 11 - Types of cars	24
Unit 12 - Parts of a car: Exterior	26
Unit 13 - Parts of a car: Interior	28
Unit 14 - Gauges and meters	30
Unit 15 - Tires	32

Appendix

Glossary	34
----------------	----

1 Hand tools 1



Great Advice When You Need It

Today's Column

Question: I recently bought a house, and something breaks every month. I want to fix things myself. What do I need?

- Frank G.

Fix it! Answers:

Sometimes things break in houses. Calling a repair man is expensive. As a homeowner, you need tools. Go to the local hardware store. Most sell **tool kits** with the basic **hand tools**. They usually include a couple of **Phillips screwdrivers**, **flathead screwdrivers**, and an **adjustable wrench**. Some tool kits also have **slip-joint pliers** and **long-nose pliers**. Then buy a tape measure, a **claw hammer**, and a **utility knife** separately. Utility knives have **retractable** blades, so they last a long time. And these separate items can be found for less than ten dollars. Read about how to use these tools, and home improvement projects are easy.

Get ready!

- 1 Before you read the passage, talk about these questions.

- 1 What are some common hand tools?
- 2 What repairs and tasks do you use hand tools for?

Reading

- 2 Read the advice column. Then, choose the correct answers.

- 1 What is the column mostly about?
 - A an expensive repair man
 - B a recommendation for tools
 - C a local hardware store
 - D a description of how long tools last
- 2 What are NOT included in tool kits?
 - A tape measures
 - B adjustable wrenches
 - C Phillips screwdrivers
 - D flathead screwdrivers
- 3 According to the columnist, what is true about utility knives?
 - A The blades break frequently.
 - B They are included in tool kits.
 - C The blades are not always out.
 - D They cost less than hammers.

Vocabulary

- 3 Match the words (1-5) with the definitions (A-E).

- | | |
|-----------------|-------------------|
| 1 _ wrench | 4 _ utility knife |
| 2 _ retractable | 5 _ hand tool |
| 3 _ adjustable | |

- A a manual device used for home improvement projects
- B being able to pull back in
- C a small cutting device
- D a hand tool that tightens and loosens nuts and bolts
- E being able to change sizes

4 Read the sentence pair. Choose where the words best fit the blanks.

1 Phillips screwdriver / flathead screwdriver

- A A screw with a flat slot needs a _____ .
B A screw with a cross-shape on the head needs a _____ .

2 slip-joint pliers / long-nose pliers

- A _____ are adjustable.
B _____ have needle-like pincers.

3 claw hammer / tool kit

- A A _____ can drive in or remove nails.
B Many tools are included in a _____ .

5 Listen and read the advice column. What kind of measuring device does it recommend homeowners' buy?

Listening

6 Listen to a conversation between a sales associate and a customer. Mark the following statements as true (T) or false (F).

- 1 ___ The customer needs Phillips and flathead screwdrivers.
2 ___ They do not sell hand tools individually.
3 ___ Buying tools in a set is less expensive than buying them one at a time.

7 Listen again and complete the conversation.

Sales Associate: 1 _____ , welcome to Bob's Hardware.

Customer: Hi. Can you tell me where the hand tools are?

Sales Associate: Sure. They're right 2 _____. What are you looking for?

Customer: Well, I need some 3 _____ screwdrivers.

Sales Associate: Okay. 4 _____ full sets or individual screwdrivers.

Customer: Oh, okay. But I only need a few sizes. What do you recommend?

Sales Associate: I 5 _____ a full set.

Customer: Really? Why is that?

Sales Associate: It's cheaper than buying them separately. Plus, 6 _____ the sizes some day.

Speaking

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

USE LANGUAGE SUCH AS:

Can you tell me ...?

What do you ...?

I recommend ...

Student A: You are a sales associate. Talk to Student B about:

- location of hand tools
- full sets and individual tools
- costs of purchasing tools

Student B: You are a customer. Talk to Student A about purchasing hand tools.

Writing

9 Use the conversation from Task 8 to fill out the customer feedback form.

Bob's Hardware

Customer Feedback Form

Customer name: _____

Date of purchase: _____

Items purchased: _____

What did our employee help you with?

Was our employee helpful? Y / N