Career Paths: Mechanics is a new educational resource for professional mechanics 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: Mechanics addresses topics including hand tools, power tools, auto systems, maintenance, and body repair.

The series is organized into three levels of difficulty and offers over 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 Guide contains teacher's notes, a full answer key and audio scripts. The audio CDs contain all recorded material.
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<td>1</td>
<td>Hand Tools 1</td>
<td>Advice column</td>
<td>adjustable, claw hammer, flathead screwdriver, hand tools, long-nose pliers,</td>
<td>Asking for advice</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Phillips screwdriver, retractable, slip-joint pliers, tool kit, utility knife, wrench</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Hand Tools 2</td>
<td>Website</td>
<td>Allen wrench, ball pein hammer, combination wrench, hacksaw, hand saw, nut</td>
<td>Clarifying information</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>driver, pipe wrench, ratchet wrench, sawhorse, socket, socket extension, spanner wrench, wire cutter</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Fasteners</td>
<td>Hardware poster</td>
<td>anchor, bolt, clamp, fastener, grade, metric thread, nail, nut, pin, screw,</td>
<td>Explaining a problem</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>sheet metal screw, thread, UTS thread, washer, wood screw</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Power Tools</td>
<td>Inventory checklist</td>
<td>air compressor, air ratchet, angle grinder, drill, drill bit, heat gun,</td>
<td>Talking about capabilities</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>impact socket, impact wrench, pneumatic torque wrench, sander, shop vac</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Bench and Machine Tools</td>
<td>Website</td>
<td>abrasive, bearing press, bench grinder, drill press, grinding machine, lathe,</td>
<td>Making comparisons</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>lift, rotate, sander, table saw</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Basic Actions</td>
<td>Instructions</td>
<td>drive, flip, grip, insert, lift, pull, push, remove, screw, strip, twist,</td>
<td>Giving instructions</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>unscrew</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Materials</td>
<td>Magazine article</td>
<td>aluminum, cast iron, fiberglass, glass, leather, lightweight, plastic,</td>
<td>Describing materials</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>rubber, steel</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Numbers</td>
<td>Chart</td>
<td>add, and, come to, divided by, equal, -hundred, is, less, minus, multiplied</td>
<td>Asking for tools</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>by, over, plus, subtract times, -ths</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Measurements</td>
<td>Magazine article</td>
<td>caliper, centimeter, conversion, cubic inch, cubic liter, imperial, inch,</td>
<td>Describing possibilities</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>kilogram, liter, metric, micrometer, millimeter, pound, quart, round off</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Around the Shop</td>
<td>Checklist</td>
<td>bead blaster, computer, creeper, drain, electrical outlet, fan, lift, mat,</td>
<td>Accepting responsibility</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>pit, printer, sink, solvent tank, storage, work lamp</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Types of Cars</td>
<td>Advertisement</td>
<td>2-door coupe, 4-door sedan, compact, convertible, hatchback, minivan,</td>
<td>Making recommendations</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>pickup truck, sports car, station wagon, SUV, van</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Parts of a Car:</td>
<td>Checklist</td>
<td>brake light, bumper, door, fender, grill, headline, hood, mirror,</td>
<td>Listing damage</td>
</tr>
<tr>
<td>Exterior</td>
<td></td>
<td></td>
<td>taillight, windshield, wipers</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Parts of a Car:</td>
<td>Website</td>
<td>bench seat, bucket seat, console, door panel, handle, knob, lock,</td>
<td>Asking for more detail</td>
</tr>
<tr>
<td>Interior</td>
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<td></td>
<td>rearview mirror, seat belt, shifter, steering wheel, window switch</td>
<td></td>
</tr>
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<td>14</td>
<td>Gauges and Meters</td>
<td>Magazine column</td>
<td>battery light, dashboard, fuel gauge, instrument cluster, measure,</td>
<td>Talking about degrees</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>odometer, speedometer, tachometer, temperature gauge, tire pressure gauge</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Tires</td>
<td>Guide</td>
<td>block, crank, flat, hubcap, jack, jack up, loosen, lower, lug bolt, lug nut,</td>
<td>Checking for required</td>
</tr>
<tr>
<td></td>
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<td>lug wrench, spare, tighten, tire</td>
<td>items</td>
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<td>Internal Combustion Engine</td>
<td>Encyclopedia entry</td>
<td>connecting rod, crankcase, crankshaft, cylinder, engine block, head, piston, piston ring, spark plug, sump, valve</td>
<td>Pointing out an error</td>
</tr>
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<td>2</td>
<td>Diesel vs. Gasoline</td>
<td>Advice column</td>
<td>biodiesel, clean diesel, combustion chamber, compression ratio, diesel, durable, fuel injection pump, gasoline, glow plug, heat up, maintenance, precombustion chamber, run on</td>
<td>Describing pros and cons</td>
</tr>
<tr>
<td>3</td>
<td>Two-stroke Engine</td>
<td>Blog post</td>
<td>compress, cycle, exhaust, fire, fuel, fuel-to-oil ratio, inlet, mix, revolution, two-stroke engine, two-stroke oil</td>
<td>Predicting a cause</td>
</tr>
<tr>
<td>4</td>
<td>Four-stroke Engine</td>
<td>Encyclopedia entry</td>
<td>compression stroke, cylinder head, exhaust stroke, exhaust valve, four-stroke engine, head gasket, ignite, intake stroke, intake valve, power stroke, pressure</td>
<td>Explaining a problem</td>
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<tr>
<td>5</td>
<td>Electrical System</td>
<td>Webpage</td>
<td>battery, blade fuse, blow, burned-out, charge, distributor cap, distributorless ignition system, feeler gauge, fuse box, gap, negative terminal, positive terminal, tubular fuse</td>
<td>Checking for correct parts</td>
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<td>6</td>
<td>Ignition System</td>
<td>Troubleshooting guide</td>
<td>alternator, charge, ground, ignition switch, jump start, key, start, starter, starter relay, turn over, voltage regulator</td>
<td>Identifying a problem</td>
</tr>
<tr>
<td>7</td>
<td>Fuel System</td>
<td>Inspection report</td>
<td>air filter, carburetor, cold air collection box, fuel filter, fuel injection, fuel injector, fuel line, fuel pump, fuel system, fuel tank, gasoline direct injection</td>
<td>Giving an estimate</td>
</tr>
<tr>
<td>8</td>
<td>Lubrication System</td>
<td>Advertisement</td>
<td>detergent, friction, grease gun, heat, lubricate, lubrication system, oil, oil change, oil filter, oil pressure, oil pump, reduce, sludge, viscosity, Zerk</td>
<td>Listing actions and repairs</td>
</tr>
<tr>
<td>9</td>
<td>Exhaust System</td>
<td>Advertisement</td>
<td>catalytic converter, emissions, emissions control, exhaust manifold, exhaust pipe, exhaust system, heat shield, muffler, pollution, PCV valve, tailpipe</td>
<td>Checking on progress</td>
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<td>10</td>
<td>Cooling System</td>
<td>Chapter</td>
<td>antifreeze, boil, coolant, coolant recovery system, cooling system, fan, freeze, heater hose, lower radiator hose, pulley, radiator, serpentine belt, thermostat, upper radiator hose, water pump</td>
<td>Giving bad news</td>
</tr>
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<td>11</td>
<td>Brake System</td>
<td>Poster</td>
<td>anti-lock braking system, brake booster, brake fluid, brake line, brake pad, brake pedal, brake shoe, brake system, caliper, disc brake, drum brake, hydraulic brake, master cylinder, parking brake, power brakes</td>
<td>Talking about a schedule</td>
</tr>
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<td>12</td>
<td>Steering System</td>
<td>Chapter</td>
<td>pinion, power steering, power steering pump, rack, rotate, spindle, steering shaft, steering system, steering wheel, tie rod</td>
<td>Making a prediction</td>
</tr>
<tr>
<td>13</td>
<td>Suspension System</td>
<td>Website</td>
<td>air spring, ball joint, coil spring, double-wishbone suspension, leaf spring, MacPherson strut, multilink suspension, shock absorber, stabilizer bar, strut suspension, suspension system, torsion bar</td>
<td>Requesting information</td>
</tr>
<tr>
<td>14</td>
<td>Transmission System</td>
<td>Webpage</td>
<td>automatic transmission, clutch, clutch pedal, drive train, engage, four-wheel drive, front-wheel drive, gear shift, manual transmission, rear-wheel drive, transmission fluid, transmission system</td>
<td>Gathering information</td>
</tr>
<tr>
<td>15</td>
<td>Differentials and Joints</td>
<td>Advice column</td>
<td>clunk, coupling, CV boot, CV joint, friction, hinge, joint, knocking, rotary motion, transaxle, transmit, U-joint</td>
<td>Confirming a prediction</td>
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Book 3

Jim D. Dearholt

Express Publishing
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<td>1</td>
<td>Basic Electricity</td>
<td>Course description</td>
<td>AC, amp, capacitance, circuit, circuitry, conductivity, conductor, current, DC, electricity, insulator, magnetism, ohm, resistance, voltage</td>
<td>Explaining a term</td>
</tr>
<tr>
<td>2</td>
<td>Electrical Tools and Equipment</td>
<td>Job listing</td>
<td>anti-static wristband, blade connector, channel lock pliers, coaxial connector, continuity detector, crimper, fish tape, flashlight, high-voltage connector, multimeter, ring terminal, side-cutting pliers, soldering iron, spade terminal, wire, wire stripper</td>
<td>Adding information</td>
</tr>
<tr>
<td>3</td>
<td>Parts of a Motorcycle</td>
<td>Advertisement</td>
<td>belt drive, clutch, fork tube, frame, fuel tank, handlebars, lever chain drive, motorcycle, shaft drive, shift lever, shock absorber, side stand, swingarm, throttle, triple tree</td>
<td>Asking for an opinion</td>
</tr>
<tr>
<td>4</td>
<td>Common Problems</td>
<td>Magazine article</td>
<td>battery tender, chain guide, chain tension, chain wear, deposit, excessive, float bowl, fuel contamination, fuel stabilizer, give out, inflate, sprocket teeth, stale gas, tire wear, varnish</td>
<td>Discussing damage</td>
</tr>
<tr>
<td>5</td>
<td>Heating</td>
<td>HVAC webpage</td>
<td>boiler, central heat, furnace, gas heater, heating system, install, maintain, oil fired, pump, radiator, repair, thermostat, water heater</td>
<td>Describing plans</td>
</tr>
<tr>
<td>6</td>
<td>Ventilation</td>
<td>Webpage</td>
<td>air duct, air handler, air quality, blower, damper, fan coil unit, filter, humidity, mechanical exhaust, package unit, pollutant, split system, unit ventilator, ventilation</td>
<td>Identifying a problem</td>
</tr>
<tr>
<td>7</td>
<td>Air Condition and Refrigeration</td>
<td>Consumer review website</td>
<td>air conditioner, air conditioning, condenser, evaporative cooler, heat, heat exchanging pipes, ice machine, refrigerator, refrigeration, refrigerator, walk-in cooler</td>
<td>Scheduling an appointment</td>
</tr>
<tr>
<td>8</td>
<td>Farm Machines</td>
<td>Brochure</td>
<td>baler, continuous tracks, diagnostic equipment, farmer, harvester, hydraulic pump, hydraulics, irrigation system, planter, service life, tiller, tractor</td>
<td>Describing work experience</td>
</tr>
<tr>
<td>9</td>
<td>Construction and Demolition Machines</td>
<td>Job postings</td>
<td>analyze, backhoe, blade, bulldozer, crane, dismantle, excavator, grader, hydraulic shears, on-site, paving machine, reassemble, ripper</td>
<td>Estimating time</td>
</tr>
<tr>
<td>10</td>
<td>Welding</td>
<td>Product website</td>
<td>collision, gun, MIG welder, plasma cutter, respirator, slag, stick welder, TIG welder, torch, UV light, welding, welding helmet, wire feeder</td>
<td>Stating agreement</td>
</tr>
<tr>
<td>11</td>
<td>Frame Repair</td>
<td>Webpage</td>
<td>alignment, alignment lift, clamp, electronic measurement system, frame, frame rack, hook, laser measurement system, manufacturer specifications, mechanical measurement system, power puller, tool board, wheel aligner</td>
<td>Asking for advice</td>
</tr>
<tr>
<td>12</td>
<td>Refinishing</td>
<td>Service report</td>
<td>accident, body filler, degreaser, dent, masking, overspray, paint, primer, refinish, rust, sand, smooth, spray booth, spray gun</td>
<td>Giving instructions</td>
</tr>
<tr>
<td>13</td>
<td>Hybrids</td>
<td>Magazine article</td>
<td>charge, continuously variable transmission, generator, hybrid, lithium ion battery, parallel hybrid, plug-in hybrid, regenerative braking system, two-mode hybrid</td>
<td>Identifying a mistake</td>
</tr>
<tr>
<td>14</td>
<td>Electric Cars</td>
<td>Advertisement</td>
<td>charging dock, charging port, charging station, electric car, electric motor, miles per charge, onboard charger, photovoltaic, range, solar panel, tail pipe emissions</td>
<td>Disagreeing with an opinion</td>
</tr>
<tr>
<td>15</td>
<td>Troubleshooting Problems</td>
<td>Auto guide</td>
<td>acrid, burning, condensation, data link connector, greasy, on-board diagnostic system, pull, rattle, slippery, smoke, squeal, troubleshooting, vapor, vibrate, watery</td>
<td>Listing possible causes</td>
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Coming in at 1,000 pounds with a full tank, the Grinnel X43 is our entry-level touring motorcycle and among our best selling!

With state-of-the-art, computer-adjusted front and rear suspension systems and comfortable seating it offers an amazingly smooth riding experience for those just entering the world of motorcycles.

The X43’s handlebars are designed to reduce strain and put the driver in full control. Convenient placement of the throttle, the clutch lever, and the shift lever make this bike simple and easy to operate for a first-time driver. Unlike chain or belt drives, the X43’s shaft drive is extremely durable and requires little maintenance. It’s just one example of the X43’s reliability. Our aim is to ensure that you get the smoothest ride with minimal maintenance.

And how do we accomplish that goal? We start with a high-strength steel frame. The fork tubes and durable triple trees provide the front suspension, while the swingarm with computer-controlled shock absorbers creates the rear suspension. A six-gallon fuel tank ensures you can take a long ride without refueling. And not only is the X43 supported by a standard steel side stand, it is supported by Grinnel’s three-year, unlimited mileage warranty. Check out the Grinnel X43 today, and get into the world of riding motorcycles.

Get ready!

Before you read the passage, talk about these questions.
1. What are some of the parts of a motorcycle?
2. What keeps a motorcycle standing when it is not being driven?

Reading

Read the advertisement for a motorcycle. Then, choose the correct answers.

1. What is the advertisement mostly about?
   A. different types of options for a motorcycle
   B. types of products from a motorcycle company
   C. a motorcycle designed for touring
   D. available parts for a motorcycle

2. What is true of the X43 model?
   A. It is built for racing.
   B. It has an optional side stand.
   C. It is recommended for first-time drivers.
   D. It weighs less than 900 pounds with fuel.

3. Which is NOT a feature of the X43?
   A. side stand   C. steel frame
   B. belt drive   D. shock absorbers

Vocabulary

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

1. motorcycle / frame
   A. A _____________ is similar to a bicycle with an engine.
   B. The wheels, seat, and other parts attach to the _____________.

2. side stand / handlebars
   A. The _____________ allow drivers to park a motorcycle.
   B. _____________ are used to make turns.

3. chain drive / shaft drive
   A. A _____________ has a long rod in the drive train.
   B. Gears are an important part of a _____________.

4. fuel tank / belt drive
   A. Gasoline or diesel is stored in the _____________.
   B. A _____________ connects the engine and rear wheel.
**Speaking**

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

**USE LANGUAGE SUCH AS:**

How about the ...?
So do you think it ...?
We’ll also need to ...

---

**Student A:** You are a mechanic. Talk to Student B about:
- the damage to a motorcycle
- what needs to be repaired
- if the motorcycle can be ridden

**Student B:** You are a mechanic. Talk to Student A about the damage to a motorcycle.

---

**Writing**

9 Use the advertisement and conversation from Task 8 to fill out an assessment of a damaged motorcycle. Include:
- damaged parts, repairs required, and parts that are safe.

### Damage Assessment

- **Customer name:** ____________________________
- **Damaged parts:** ____________________________
- **New parts required:** ____________________________
- **Safe parts:** ____________________________

---

**Speaking**

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

**USE LANGUAGE SUCH AS:**

How about the ...?
So do you think it ...?
We’ll also need to ...

---

**Student A:** You are a mechanic. Talk to Student B about:
- the damage to a motorcycle
- what needs to be repaired
- if the motorcycle can be ridden

**Student B:** You are a mechanic. Talk to Student A about the damage to a motorcycle.

---

**Writing**

9 Use the advertisement and conversation from Task 8 to fill out an assessment of a damaged motorcycle. Include:
- damaged parts, repairs required, and parts that are safe.

### Damage Assessment

- **Customer name:** ____________________________
- **Damaged parts:** ____________________________
- **New parts required:** ____________________________
- **Safe parts:** ____________________________

---

**Speaking**

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

**USE LANGUAGE SUCH AS:**

How about the ...?
So do you think it ...?
We’ll also need to ...

---

**Student A:** You are a mechanic. Talk to Student B about:
- the damage to a motorcycle
- what needs to be repaired
- if the motorcycle can be ridden

**Student B:** You are a mechanic. Talk to Student A about the damage to a motorcycle.

---

**Writing**

9 Use the advertisement and conversation from Task 8 to fill out an assessment of a damaged motorcycle. Include:
- damaged parts, repairs required, and parts that are safe.

### Damage Assessment

- **Customer name:** ____________________________
- **Damaged parts:** ____________________________
- **New parts required:** ____________________________
- **Safe parts:** ____________________________

---

**Speaking**

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

**USE LANGUAGE SUCH AS:**

How about the ...?
So do you think it ...?
We’ll also need to ...

---

**Student A:** You are a mechanic. Talk to Student B about:
- the damage to a motorcycle
- what needs to be repaired
- if the motorcycle can be ridden

**Student B:** You are a mechanic. Talk to Student A about the damage to a motorcycle.

---

**Writing**

9 Use the advertisement and conversation from Task 8 to fill out an assessment of a damaged motorcycle. Include:
- damaged parts, repairs required, and parts that are safe.

### Damage Assessment

- **Customer name:** ____________________________
- **Damaged parts:** ____________________________
- **New parts required:** ____________________________
- **Safe parts:** ____________________________
Get ready!

1. Before you read the passage, talk about these questions.
   1. What are two systems used for measuring short distances?
   2. What is measured in pounds?

Reading

2. Read the magazine article. Then, fill in the blanks using words from the word bank.

**Word Bank**
- measurements
- centimeters
- liters
- pounds
- systems
- fasteners

There are two 1 _______________ of measurement. Using the right one is important. It prevents damage to 2 _______________. The metric system uses 3 _______________ for distance, while the imperial system uses inches. Other types of 4 _______________ are also different in the two systems. Volumes in quarts and 5 _______________ are not interchangeable. Neither are weights in 6 _______________ and kilograms.

Vocabulary

3. Match the words (1-8) with the definitions (A-H).
   1. __ liter
   2. __ pound
   3. __ imperial
   4. __ round off
   5. __ conversion
   6. __ cubic inch
   7. __ centimeter
   8. __ micrometer

   A. changing from one system into another
   B. a metric measure of length or distance
   C. an imperial measure of volume
   D. to damage a screw or bolt
   E. a tool that measures small distances
   F. the system that uses inches and quarts
   G. an imperial measure of weight
   H. a metric measure of volume
4 Write a word that is similar in meaning to the underlined part.

1 The carpenter measured the bolt heads with a tool with adjustable legs. _a l _ _ _ e r
2 I have imperial wrenches, but I need one that is part of the system based on the meter. _ e _ _ i c
3 This tank holds one unit equal to 1000 liters of liquid. _ u _ _ m _ _ t _ _
4 The size of the screw was eight units equal to 1/10 of a centimeter. _ _ l l _ m _ _ _ m _
5 Add six units of imperial volume. _ u a _ _ s
6 Steven accidentally recorded the weights in pounds instead of units of metric weight. _ k _ o _ r _
7 How many units of imperial length is that rope? _ _ _ e s

5 Listen and read the magazine article again. Why is it important to use the correct measurement system?

Listening

6 Listen to a conversation between two mechanics. Mark the following statements as true (T) or false (F).

1 _ The man is using the wrong size wrench.
2 _ The man injured his hand when a wrench slipped.
3 _ The shop does not have imperial wrenches.

7 Listen again and complete the conversation.

Mechanic 1: Joe, are you 1 __________ over there?
Mechanic 2: Yeah. My wrench keeps 2 __________ this bolt.
Mechanic 1: Let’s see. Well, you’re using the wrong wrench.
Mechanic 2: Really? It seemed like the 3 __________.
Mechanic 1: You can’t use a metric wrench with an imperial bolt. You could 4 __________ the bolt or hurt your hand.
Mechanic 2: I didn’t realize I had 5 __________.
Mechanic 1: Come with me. 6 __________ where we keep the imperial wrenches.

Speaking

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

USE LANGUAGE SUCH AS:

My wrench keeps slipping ...
You’re using the wrong...
You can’t use a ... with a ...

Student A: You are a mechanic.
Talk to Student B about:
• a bolt
• using the correct wrench
• tool locations

Student B: You are a mechanic.
Talk to Student A about using proper wrenches.

Writing

9 Use the conversation from Task 8 to fill out the mechanic’s job notes.

JOB: 1779

What is being repaired?

Which tools are required?

What is the measurement system?
excessive [ADJ-U4] If something is excessive, it is more than what is usual or expected.

fan coil unit [N-COUNT-U6] A fan coil unit is a device that controls the temperature in a room or small space without the use of ducts. The unit contains a heating or cooling mechanism and a fan to distribute the air.

farmer [N-COUNT-U8] A farmer is a person who operates or works on a farm.

filter [N-COUNT-U6] A filter is a part of a ventilation system that cleans air by catching particles of dirt and dust as the air passes through.

gas heater [N-COUNT-U5] A gas heater is a type of furnace that produces heat by burning gas.


give out [V-PHRASAL-U4] If a piece of equipment gives out, it breaks or becomes unusable.

grader [N-COUNT-U9] A grader is a machine that is used to create a particular slope along the ground’s surface.

greasy [ADJ-U15] If something is greasy, it has a layer of oil or similar substance on it.

gun [N-COUNT-U10] A gun is the part of a welding torch that is held during welding.

handlebars [N-COUNT–U3] Handlebars are a bar with grips on the ends used to steer a motorcycle.

harvester [N-COUNT-U8] A harvester is a farm machine that collects a crop from where the crop is grown.

heat [N-UNCOUNT-U7] Heat is the amount of warmth an object has.

heat exchanging pipes [N-COUNT-U7] Heat exchanging pipes are tubes used in cooling systems to move hot and cold gases in and out of the system.

heating system [N-COUNT-U5] A heating system is a utility for making and keeping a building warm.

high voltage connector [N-COUNT–U2] A high voltage connector is a connector wire used for voltages above 500V.

hook [N-COUNT-U11] A hook is a curved or bent piece of metal, such as those attached to a tool board, on which tools can be hung.

humidity [N-UNCOUNT-U6] Humidity is the amount of moisture that is present in the air.

hybrid [N-COUNT–U13] A hybrid is a vehicle that has both an electric motor and a gasoline or diesel engine.

hydraulic pump [N-COUNT–A8] A hydraulic pump is a pump that uses energy from flowing water to create power.

hydraulic shears [N-COUNT-U9] Hydraulic shears are a tool powered by hydraulics that are used to cut through metal.

hydraulics [N-UNCOUNT-U8] Hydraulics is the science of using water or other liquids to create power or movement.

ice machine [N-COUNT-U7] An ice machine is a device that freezes water into ice.

inflate [V-T-U4] To inflate a tire is to force air into it.

install [V-T-U5] To install something is to put or attach something in a particular place.

insulator [N-COUNT-U1] An insulator is an object or substance that stops electricity from passing through something.

irrigation system [N-COUNT-U8] An irrigation system is a process for distributing water to farmland.
Career Paths: Mechanics is a new educational resource for professional mechanics 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: Mechanics addresses topics including hand tools, power tools, auto systems, maintenance, and body repair.

The series is organized into three levels of difficulty and offers over 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 Guide contains teacher’s notes, a full answer key and audio scripts. The audio CDs contain all recorded material.