

**CAREER
PATHS**

Mechanics

Jim D. Dearholt



Express Publishing

**CAREER
PATHS**

Mechanics

Book

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Scope and Sequence

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

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Scope and Sequence

Unit	Topic	Reading context	Vocabulary	Function
1	Internal Combustion Engine	Encyclopedia entry	connecting rod, crankcase, crankshaft, cylinder, engine block, head, piston, piston ring, spark plug, sump, valve	Pointing out an error
2	Diesel vs. Gasoline	Advice column	biodiesel, clean diesel, combustion chamber, compression ratio, diesel, durable, fuel injection pump, gasoline, glow plug, heat up, maintenance, precombustion chamber, run on	Describing pros and cons
3	Two-stroke Engine	Blog post	compress, cycle, exhaust, fire, fuel, fuel-to-oil ratio, inlet, mix, revolution, two-stroke engine, two-stroke oil	Predicting a cause
4	Four-stroke Engine	Encyclopedia entry	compression stroke, cylinder head, exhaust stroke, exhaust valve, four-stroke engine, head gasket, ignite, intake stroke, intake valve, power stroke, pressure	Explaining a problem
5	Electrical System	Webpage	battery, blade fuse, blow, burned-out, charge, distributor cap, distributorless ignition system, feeler gauge, fuse box, gap, negative terminal, positive terminal, tubular fuse	Checking for correct parts
6	Ignition System	Troubleshooting guide	alternator, charge, ground, ignition switch, jump start, key, start, starter, starter relay, turn over, voltage regulator	Identifying a problem
7	Fuel System	Inspection report	air filter, carburetor, cold air collection box, fuel filter, fuel injection, fuel injector, fuel line, fuel pump, fuel system, fuel tank, gasoline direct injection	Giving an estimate
8	Lubrication System	Advertisement	detergent, friction, grease gun, heat, lubricate, lubrication system, oil, oil change, oil filter, oil pressure, oil pump, reduce, sludge, viscosity, Zerk	Listing actions and repairs
9	Exhaust System	Advertisement	catalytic converter, emissions, emissions control, exhaust manifold, exhaust pipe, exhaust system, heat shield, muffler, pollution, PCV valve, tailpipe	Checking on progress
10	Cooling System	Chapter	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	Giving bad news
11	Brake System	Poster	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	Talking about a schedule
12	Steering System	Chapter	pinion, power steering, power steering pump, rack, rotate, spindle, steering shaft, steering system, steering wheel, tie rod	Making a prediction
13	Suspension System	Website	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	Requesting information
14	Transmission System	Webpage	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	Gathering information
15	Differentials and Joints	Advice column	clunk, coupling, CV boot, CV joint, friction, hinge, joint, knocking, rotary motion, transaxle, transmit, U-joint	Confirming a prediction

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**CAREER
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Scope and Sequence

Unit	Topic	Reading context	Vocabulary	Function
1	Basic Electricity	Course description	AC, amp, capacitance, circuit, circuitry, conductivity, conductor, current, DC, electricity, insulator, magnetism, ohm, resistance, voltage	Explaining a term
2	Electrical Tools and Equipment	Job listing	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	Adding information
3	Parts of a Motorcycle	Advertisement	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	Asking for an opinion
4	Common Problems	Magazine article	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	Discussing damage
5	Heating	HVAC webpage	boiler, central heat, furnace, gas heater, heating system, install, maintain, oil fired, pump, radiator, repair, thermostat, water heater	Describing plans
6	Ventilation	Webpage	air duct, air handler, air quality, blower, damper, fan coil unit, filter, humidity, mechanical exhaust, package unit, pollutant, split system, unit ventilator, ventilation	Identifying a problem
7	Air Condition and Refrigeration	Consumer review website	air conditioner, air conditioning, condenser, evaporative cooler, heat, heat exchanging pipes, ice machine, refrigerant, refrigeration, refrigerator, walk-in cooler	Scheduling an appointment
8	Farm Machines	Brochure	baler, continuous tracks, diagnostic equipment, farmer, harvester, hydraulic pump, hydraulics, irrigation system, planter, service life, tiller, tractor	Describing work experience
9	Construction and Demolition Machines	Job postings	analyze, backhoe, blade, bulldozer, crane, dismantle, excavator, grader, hydraulic shears, on-site, paving machine, reassemble, ripper	Estimating time
10	Welding	Product website	collision, gun, MIG welder, plasma cutter, respirator, slag, stick welder, TIG welder, torch, UV light, welding, welding helmet, wire feeder	Stating agreement
11	Frame Repair	Webpage	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	Asking for advice
12	Refinishing	Service report	accident, body filler, degreaser, dent, masking, overspray, paint, primer, refinish, rust, sand, smooth, spray booth, spray gun	Giving instructions
13	Hybrids	Magazine article	charge, continuously variable transmission, generator, hybrid, lithium ion battery, parallel hybrid, plug-in hybrid, regenerative braking system, two-mode hybrid	Identifying a mistake
14	Electric Cars	Advertisement	charging dock, charging port, charging station, electric car, electric motor, miles per charge, onboard charger, photovoltaic, range, solar panel, tail pipe emissions	Disagreeing with an opinion
15	Troubleshooting Problems	Auto guide	acid, burning, condensation, data link connector, greasy, on-board diagnostic system, pull, rattle, slippery, smoke, squeal, troubleshoot, vapor, vibrate, watery	Listing possible causes

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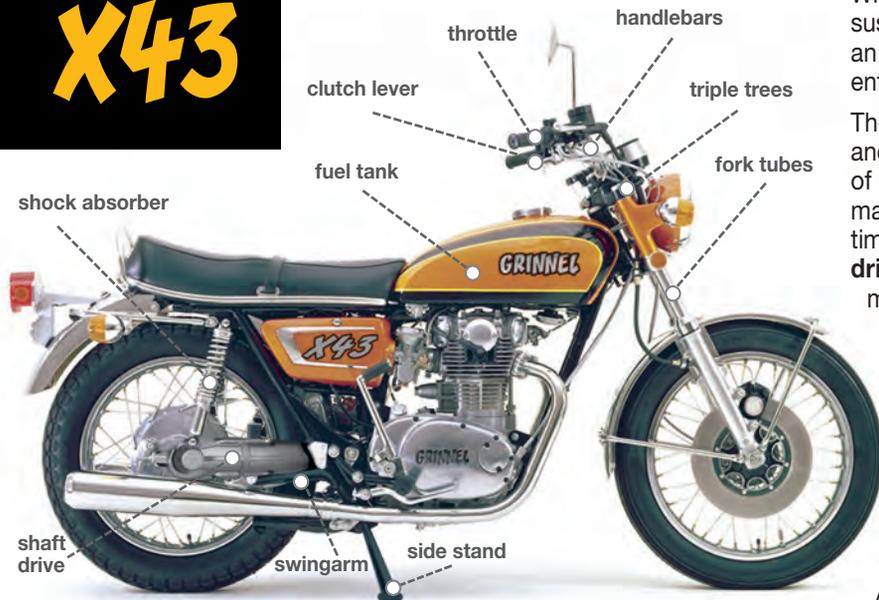
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GRINNEL
X43

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!

1 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

2 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
 - types of products from a motorcycle company
 - a motorcycle designed for touring
 - available parts for a motorcycle
- 2 What is true of the X43 model?
 - It is built for racing.
 - It has an optional side stand.
 - It is recommended for first-time drivers.
 - 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

3 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.

- 4 Place the words from the word bank under the correct heading.

Word BANK

clutch lever swingarm fork tube shift lever
throttle triple tree shock absorber

Front suspension	Rear suspension	Controls

- 5 Listen and read the advertisement for a motorcycle again. What type of rider is the X43 aimed at?

Listening

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

- 1 ___ The motorcycle was in an accident.
2 ___ The mechanic wants to replace the fork.
3 ___ The frame is the most damaged part.

- 7 Listen again and complete the conversation.

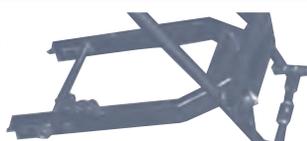
Mechanic 2: That depends. The 1 _____ are beyond repair.
Mechanic 1: No doubt about that.
Mechanic 2: I think I could find a reasonably priced replacement.
Mechanic 1: OK. How about the 2 _____ ?
Mechanic 2: I went over it with a 3 _____ - _____ and didn't find a single crack.
Mechanic 1: That's incredible!
Mechanic 2: There was some damage, but it's 4 _____ .
Mechanic 1: So do you think it's still 5 _____ ?
Mechanic 2: Sure, but 6 _____ a lot of work. We'll also need to replace both wheels, the brakes, and the swingarm.
Mechanic 1: 7 _____ ?
Mechanic 2: That's all I could find.



chain drive



belt drive



swing arm

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.

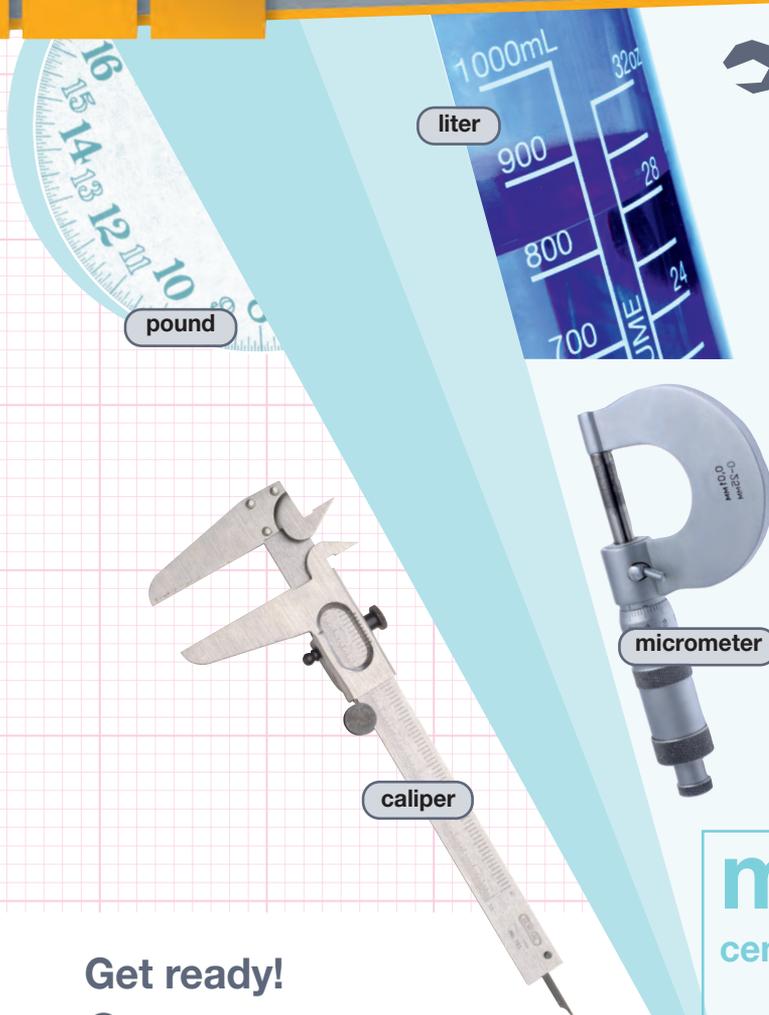
Damage Assessment

Customer name: _____

Damaged parts: _____

New parts required: _____

Safe parts: _____



Do-It-Yourself

MONTHLY

Know your measurements

Fasteners and tools use **imperial** measurements or **metric**, and knowing the difference is important. It prevents you from **rounding off** a fastener, damaging tools, or causing injury. If you don't know an item's size, use a **micrometer** or other **caliper** to measure it. Check **centimeters** or **millimeters** for metric tools. Look at **inches** for imperial tools.

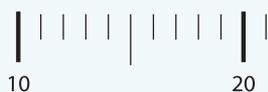
Volume and weight are also very different in the two systems. Using **quarts** when a formula calls for **liters** is very dangerous. A **cubic inch** is totally different from a **cubic meter**. For weights, a **pound** cannot substitute for a **kilogram**. Always pay close attention to which system is required. If you must use tools from the other system, refer to a table of **conversion**.

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?

metric
centimeters



imperial
inches

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 | 5 ___ conversion |
| 2 ___ pound | 6 ___ cubic inch |
| 3 ___ imperial | 7 ___ centimeter |
| 4 ___ round off | 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 _ i _ m _ t _ _
- 4 The size of the screw was eight units equal to 1/10 of a centimeter. _ _ l l _ m _ _ _ r s
- 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 _ s
- 7 How many units of imperial length is that rope? i _ _ _ 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 measurements system?

Glossary

- 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.
- fish tape** [N-UNCOUNT-U2] **Fish tape** is a band of spring steel used to guide wire through a wall.
- flashlight** [N-COUNT-U2] A **flashlight** is a small hand-held tool used to shine a beam of light.
- float bowl** [N-COUNT-U4] A **float bowl** is a compartment in a carburetor into which fuel is pumped for immediate use by the engine.
- fork tube** [N-COUNT-U3] **Fork tubes** are a pair of tubes forming the motorcycle's front suspension and connecting the front wheel to the frame.
- frame** [N-COUNT-U11] A **frame** is the main skeleton of an automobile, to which the engine, wheels and body are attached.
- frame** [N-COUNT-U3] A **frame** is the body of a motorcycle to which all other main parts are attached.
- frame rack** [N-COUNT-U11] A **frame rack** is an automotive lift to raise a vehicle above the ground so that it can be more easily worked on.
- fuel contamination** [N-UNCOUNT-U4] **Fuel contamination** is the process in which improperly stored fuel is spoiled as deposits and varnish form.
- fuel stabilizer** [N-COUNT-U4] A **fuel stabilizer** is an additive that prevents fuel from becoming stale and leaving deposits.
- fuel tank** [N-COUNT-U3] A **fuel tank** is the part of the motorcycle that stores fuel used by the engine.
- furnace** [N-COUNT-U5] A **furnace** is a container that produces heat.
- gas heater** [N-COUNT-U5] A **gas heater** is a type of furnace that produces heat by burning gas.
- generator** [N-COUNT-U13] A **generator** is a machine that makes electricity.
- 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-U8] 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.

Mechanics

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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