

**CAREER  
PATHS**

**Construction II**

# Roads & Highways

Virginia Evans  
Jenny Dooley  
Mark Chavez



**Express Publishing**

**CAREER  
PATHS**

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**Roads &  
Highways**

Book

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## Scope and Sequence

Unit	Topic	Reading context	Vocabulary	Function
1	Types of Roads	Web page	alley, avenue, boulevard, cul-de-sac, dead end, freeway, highway, road, street, toll road	Giving directions
2	Parts of a Road	Newspaper article	corner, curb, gutter, lane, median, pavement, roadway, shoulder, storm drain, surface	Giving a reminder
3	Parts of a Highway	Newspaper article	breakdown lane, bypass, divider, exit, express lane, fast lane, interchange, guardrail, off ramp, on ramp	Talking about deadlines
4	Types of intersections	Book chapter	4-way, box junction, continuous flow intersection, intersection, jughandle, roundabout, the right way, T junction, traffic circle, turn lane, u-turn	Listing an exception
5	Materials	Informational pamphlet	asphalt, bitumen, Bituminous Surface Treatment (BST), concrete, fly ash, gravel, lime, rebar, rubber, steel	Listing options
6	Numbers	Chart	add, and, comes to, divided by, equals, -hundred, is, less, minus, multiplied by, plus, point, subtract, -ths, times	Talking about numbers
7	Measurements	Conversion chart	imperial, kilogram, kilometer, meter, metric, metric ton, mile, pound, short ton, yard	Estimating numbers
8	Tools	Sign out sheet	broom, dustpan, jackhammer, measure wheel, pickax, rake, round point shovel, sledgehammer, square shovel, wheelbarrow	Suggesting a replacement
9	Safety Equipment	Poster	dust mask, earplugs, face shield, first aid kit, goggles, grip gloves, hard hat, kneepads, leather gloves, PPE, safety glasses, steel-toe boots	Listing requirements
10	Basic Actions	Email	clear, drop off, load, mark off, measure, pick up, remove, spread, sweep, unload	Giving instructions
11	Machines	Website	articulated truck, backhoe, bulldozer, cement mixer, compactor, grader, loader, scraper, screed, sweeper, vibratory roller	Predicting needs
12	Communications	Advertisement	confirm, communicate, consult, contact, email, fax, PDF, scan, smart phone, two-way radio	Providing options
13	Soil	Report	bearing test, California Bearing Ration (CBR) test, clay, compaction, penetration test, sand, shear test, silt, soil, stability, sub grade	Asking about results
14	Describing Landscapes 1	Report	bend, body of water, flat, grade, hill, mountainous, rolling, sharp, valley	Asking for advice
15	Describing Landscapes 2	Email	curve, dip, dogleg, drop, rise, slight, slope, steep, straightaway, terrain	Describing progress

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## Scope and Sequence

Unit	Topic	Reading context	Vocabulary	Function
1	Surveying	Guide	accumulated error, accurate, chain surveying, geodetic surveying, measuring tape, plane surveying, point, position, ranging rod, station peg, surveying, triangulation	Talking about time
2	Surveying Equipment	Email	automatic level, digital level, GPS, gyroscopic theodolite, laser level, optical level, optical micrometer, optical plumb, optical scale reading, optical square, theodolite, total station	Making comparisons
3	Plans	Email	centerline, cross section, detail drawing, elevation, exaggerate, horizontal scale, longitudinal section, map, plan, scale, transverse section, vertical scale	Expressing a concern
4	Setting Out Lines	Handbook	calculate, curve ranging, link, nylon line, radiused corner, repeated alignment, right-angle, set out, steel pin, straight, swing, take off	Asking for clarification
5	Earthworks 1	Web page	backfill, clear, compact, embankment, excavate, existing base, fill, mill, preparation, remove	Talking about prices
6	Earthworks 2	Web page	erosion control, fascine construction, gabion wall, geotextile, lime stabilization, load-bearing capacity, marsh, plastic mesh, slope reinforcement, stabilize, swamp	Offering solutions
7	Drainage	Newspaper article	cambered, drain, drainage, drainage area, gradient, manhole, saturation, self-cleansing velocity, sewer line, standing water, storm water, subsoil drainage	Asking for advice
8	Pipes	Product listing	bolting, caulking, corrugated metal pipe, culvert, flange, flexible, gasket, joint, pipe, polyethylene, rigid, socket, welding	Expressing confusion
9	Drains	Workman's guidebook	cross drain, discharge, edge drain, fin drain, French drain, land drain, pipe underdrain, sand drain, siphon, slope drain, soakaway, trench	Disagreeing with an opinion
10	Flexible Pavement 1: Structure	Textbook chapter	base course, binder course, capping layer, flexible construction, pavement, sub-base course, sub-grade course, surface course	Correcting an error
11	Flexible Pavement 2: Design	Email	assess, axle weight, commercial vehicle, cumulative, design life, design thickness, estimate, private vehicle, standard axles, traffic growth, traffic load	Confirming information
12	Flexible Pavement 3: Surfacing	Inspection report	abrasion, aggregate, friction test, grade, polished stone value, PSV test, rolled asphalt, skid-resistant, split friction, surface	Delivering bad news
13	Flexible Pavement 4: Defects	Article	alligator cracking, bleeding, block cracking, defect, excess, irregularity, raveling, reflective cracking, rutting, shoving, slippage, transverse cracking, uneven	Describing road damage
14	Rigid Pavement 1: Slabs and Joints	Publication	CRCP, joint, joint groove, JRC, rigid pavement, URC, sealant, slab, transverse joint	Asking about progress
15	Rigid Pavement 2: Formwork	Email	by hand, cube-crushing test, expansion joint, formwork, slump test, small-scale, strike, tamp, tamper bar, vertical temperature gradient, warping joint	Talking about completion

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## Scope and Sequence

Unit	Topic	Reading context	Vocabulary	Function
1	Curb Types	Email	barrier curb, curb, curb and cutter, curb cut, cut stone curb, half-batter curb, integral curb, radius curb, splayed curb, straight curb, vertical curb	Asking for repetition
2	Installing Curbs	Instructions	bonding, curb bed, curb line, curbing machine, dry bed, epoxy resin, haunching, haunch, precast, wet bed, windrow	Correcting an error
3	Paving Sidewalks	Website	block paving, bonding pattern, cobble, dry method, five-spot method, hydraulically pressed slab, interlocking paving, lay, open-mold slab, paving slab, sidewalk, whole bed method	Discussing prices
4	Bridges 1: Types	Web page	abutment, beam bridge, cable, cable-stayed bridge, cantilever, cantilever bridge, double-decked bridge, moveable bridge, simply supported, suspension bridge	Asking about experience
5	Bridges 2: Parts	Inspection report	anchor span, approach span, bent, bent cap, dead load, deck, end bent, hammerhead pier, live load, parapet, pier	Supporting an opinion
6	Fencing	Email	ancillary work, barbed wire, chain link fence, concrete wall, fencing, field side, livestock, post and rail fencing, post and wire fencing, snow fencing, strained wired fence, timber	Changing a plan
7	Site Safety	Poster	collapse, electrocution, evacuate, gas line, hazard, injury, personnel, power line, site, sloped, underground cable, vigilant	Talking about future events
8	Traffic Control	Manual	closure, detour, merge, merging taper, shifting taper, reflective, single file, stop/go board, traffic control, traffic flow, two-way	Expressing concern
9	Signage	Notice	approach speed, color scheme, crossing sign, guide sign, hazard, minimum visibility, mounting height, orientation, placement, range, regulatory sign, sitting, stop sign, warning sign	Confirming information
10	Street Furniture	Email	bench, bollard, bus stop, guard rail, mailbox, median barrier, phone booth, street furniture, streetlight, taxi stand, traffic light, trash can	Making a recommendation
11	Testing Materials 1	Web page	aggregate, batch plant, bituminous materials, EVT, penetrometer, quartering, riffing, ring and ball test, sample, standard sieve test, standard tar viscometer, viscosity	Making an appointment
12	Testing Materials 2	Order form	compacting factor test, consistency, cube, cube test, degree of compactibility test, flow table test, hopper, sampling plan, silt test, slum test, trap door, Vebe test, workability	Asking for repetition
13	Bridge Maintenance	Inspection report	apron, de-icing salt, inspection report, invert, sand blast, scouring, shrinkage crack, spalling, steam clean, structural crack	Discussing pros and cons
14	Road Maintenance 1	Newspaper article	deteriorate, cyclic, improvement, maintain, maintenance, patching, repaint, routine, resurface, structural, sweeping, widen	Correcting an error
15	Road Maintenance 2	Contractor bid notices	bush hammering, de-ice, fatted up, high pressure water retexturing, inject, physical abrasion, plowing, pressure grouting, retexturing, rock salt, rotating discs, salt, shot blasting, snow removal	Asking about costs

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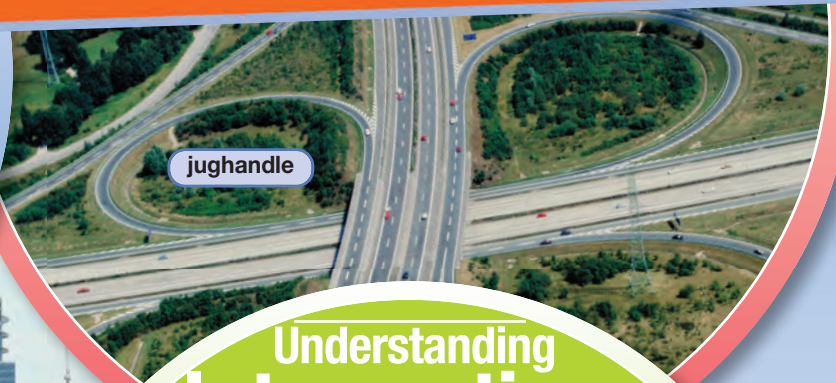
# 4

## Types of Intersections

### Get ready!

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

- 1 What are some common types of intersections?
- 2 What types of intersections do not require full stops?



### Understanding Intersections

It's important to understand the different types of **intersections**. Intersections can be grouped into two main categories. The first category is intersections that require vehicles to come to a full stop. These include **4-ways**, **T-junctions**, and **box junctions**. The second type of intersection allows traffic to flow without stopping. This group includes **roundabouts**, **traffic circles**, **continuous flow intersections**, and **jughandles**. At any type of intersection, you should know the regulations that apply. For example, it's important to know which vehicle has **the right of way**. This changes by nation and region. Likewise, check how to enter a **turn lane** and whether or not **U-turns** are permitted.

*Driving Around the World  
Chapter 10*



### Reading

2 Read the chapter. Then, choose the correct answers.

- 1 What is the purpose of the passage?
  - A to describe the safety features of intersection types
  - B to give the pros and cons of full stop intersections
  - C to list different types of intersections
  - D to explain the right of way in different intersections
- 2 Which intersection requires a driver to stop?
  - A roundabout      C traffic circle
  - B T-junction      D jughandle
- 3 Which of the following does NOT change by region or nation?
  - A how to enter turn lanes
  - B whether U-turns are allowed
  - C if box junctions require stops
  - D which vehicle has the right of way

### Vocabulary

3 Match the words or phrases (1-7) with the definitions (A-G).

- |                      |                                    |
|----------------------|------------------------------------|
| 1 ___ roundabout     | 5 ___ box junction                 |
| 2 ___ traffic circle | 6 ___ 4-way                        |
| 3 ___ jughandle      | 7 ___ continuous flow intersection |
| 4 ___ T-junction     |                                    |
- A an intersection where one road ends at a right angle
  - B an intersection where vehicles follow a gradual bend
  - C an indirect route over an intersection
  - D an intersection that contains yellow cross-hatching
  - E a road that eliminates left turns at intersections by leading drivers to another turn location
  - F an intersection where traffic coming from all four directions must stop
  - G a circular area at an intersection that allows for vehicles to pass between two roads

- 4 Fill in the blanks with the correct words or phrases from the word bank.

**Word BANK**

intersection    the right of way  
U-turn    turn lane

- At the next \_\_\_\_\_, take a left.
- At a 4-way intersection, the vehicle on the right has \_\_\_\_\_.
- It's illegal to make a(n) \_\_\_\_\_ on this road.
- This street has a(n) \_\_\_\_\_ for both left turns as well as right turns.

- 5 Listen and read the chapter again. What are the two main types of intersections?

**Listening**

- 6 Listen to a conversation between a city planner and a construction manager. Mark the following statements as true (T) or false (F).

- \_\_\_ The design calls for a T-junction at 10th Street and Route 9.
- \_\_\_ A roundabout will not fit in the area.
- \_\_\_ The man suggests using a jughandle.

- 7 Listen again and complete the conversation.

**Planner:** Ms. Reed, I have an idea for the 1 \_\_\_\_\_ 10th Street and Route 9.

**Manager:** Sure, James. What is it?

**Planner:** Well, the plan 2 \_\_\_\_\_ a four-way stop.

**Manager:** Yes, that's correct.

**Planner:** I think that will 3 \_\_\_\_\_ traffic.

**Manager:** It will. But there's no room for a 4 \_\_\_\_\_ there.

**Planner:** I know. But I think we could fit a 5 \_\_\_\_\_.

**Manager:** You know, that's a good idea. Let's 6 \_\_\_\_\_ at the plans.

**Speaking**

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

**USE LANGUAGE SUCH AS:**

*I have an idea for ...*  
*I think that will ...*  
*We could fit a ...*

**Student A:** You are a city planner. Talk to Student B about:

- a planned intersection
- the current plan
- a change to the plan

**Student B:** You are a project manager. Talk to Student A about an intersection.

**Writing**

- 9 Use the conversation from Task 8 to complete the construction manager's email.

To: \_\_\_\_\_  
From: \_\_\_\_\_  
Subject: \_\_\_\_\_

Dear \_\_\_\_\_,

The Route 9 plan calls for a \_\_\_\_\_ intersection. I think this will \_\_\_\_\_. A \_\_\_\_\_ will not fit. Instead, I suggest we use \_\_\_\_\_. Let me know what you think.

Sincerely,

\_\_\_\_\_



roundabout



T-junction

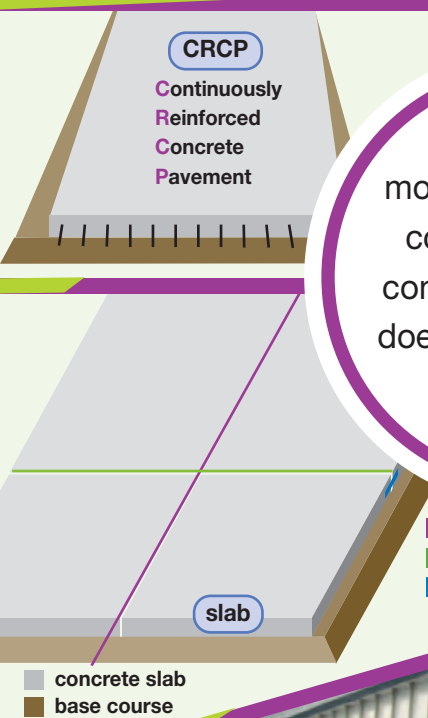


U-turn

# 14 Rigid Pavement 1: Slabs and Joints

RIGID PAVEMENT DESIGN STANDARDS

## III. RESPONDING TO LOAD AND ENVIRONMENTAL STRESS: JOINTS

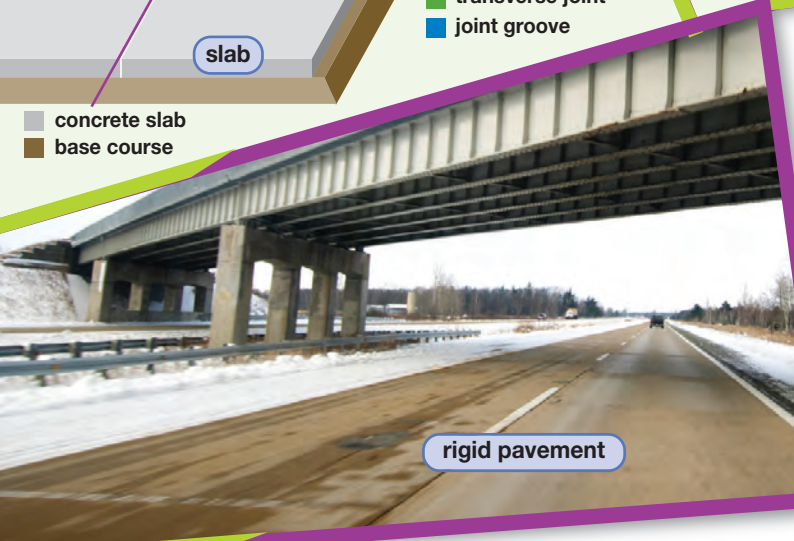


Joints are the most effective way to control cracking in concrete. Only **CRCP** does not require joints in its design.

**III.I Transverse Joints** – For jointed **URC** pavement, transverse joints are spaced between 12 and 20 feet. For **JRC** pavement, transverse joints are spaced between 25 and 50 feet. It is necessary to use dowel bars to strengthen transverse joints. Position bars at mid-depth of the **slab** before pouring the concrete.

**III.II Longitudinal Joints** – Provide longitudinal joints if a lane is wider than 15 feet. It is necessary to use tie bars to strengthen longitudinal joints. Position bars at mid-depth of the slab before pouring the concrete.

**III.III Sealing Technique** – Cut all **joint grooves** after the concrete has set. Ensure that all grooves are clean before applying the sealant. Place the **sealant** as evenly and as quickly as possible.



### Vocabulary

**3 Match the words or phrases (1-6) with the definitions (A-F).**

- |            |                          |
|------------|--------------------------|
| 1 ___ URC  | 4 ___ transverse joint   |
| 2 ___ JRC  | 5 ___ joint groove       |
| 3 ___ CRCP | 6 ___ longitudinal joint |

- A** a type of concrete that uses both joints and steel to control cracking
- B** a joint that is always perpendicular to the centerline of a road
- C** a joint that runs down the centerline of a road
- D** concrete without any materials added to make it stronger
- E** a narrow cut along a joint in which the sealant is placed
- F** a type of concrete pavement that uses only steel to control cracking

**4 Fill in the blanks with the correct words or phrases from the word bank.**

### Word BANK

sealant joint rigid pavement slab

- The worker placed a(n) \_\_\_\_\_ in the concrete so that it would not crack.
- The \_\_\_\_\_ protected the joint he placed from dirt or water damage.
- The short ramp to the highway was made of a single \_\_\_\_\_ of concrete.
- Because the ramp used \_\_\_\_\_, it could withstand heavy loads and a lot of stress.

### Get ready!

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

- What are some joints used in pavement construction?
- What type of pavement is reinforced with steel?

### Reading

**2 Read the publication. Then, mark the following statements as true (T) or false (F).**

- \_\_\_ JRC pavement requires fewer transverse joints than URC pavement.
- \_\_\_ Longitudinal joints are required on CRCP roads wider than fifteen feet.
- \_\_\_ Both longitudinal and transverse joints need joint grooves and sealant.

- 5 Listen and read the publication again. Where is sealant applied?

## Listening

- 6 Listen to a conversation between a construction company owner and a manager. Choose the correct answers.

- What is the conversation mainly about?
  - the progress of two projects
  - how to finish a project faster
  - the types of joints being installed
  - the benefits of different concrete types
- What does the man say about jointed reinforced concrete?
  - It is stronger than URC.
  - It is harder to install than URC.
  - It is more expensive than URC.
  - It requires fewer joints than URC.

- 7 Listen again and complete the conversation.

**Owner:** Everything's 1 \_\_\_\_\_. We might finish the entire project by fall.

**Manager:** How about the Green Street project? Is it going well?

**Owner:** 2 \_\_\_\_\_. The engineers are still redesigning the joints. It's starting to get pretty expensive.

**Manager:** What if we used 3 \_\_\_\_\_ concrete? Would that be cheaper than URC?

**Owner:** Not at all! The price of steel is rising. So using reinforced concrete would be 4 \_\_\_\_\_.

**Manager:** I see. Is there any way to 5 \_\_\_\_\_?

**Owner:** I have a 6 \_\_\_\_\_. But we'll talk about that later.

## Speaking

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

### USE LANGUAGE SUCH AS:

*Did you visit the ...?*

*Is it going well?*

*What if we used ...?*

**Student A:** You are a construction company owner. Talk to Student B about:

- two road projects
- the progress of the projects
- types of concrete to use

**Student B:** You are a manager. Talk to Student A about two projects.

## Writing

- 9 Use the conversation from Task 8 to fill out the project updates.

**JACKSON**  
CONSTRUCTION

### Main Street Project

Type of concrete being used: \_\_\_\_\_

Project status: \_\_\_\_\_

\_\_\_\_\_

**JACKSON**  
CONSTRUCTION

### Green Street Project

Type of concrete being used: \_\_\_\_\_

Project status: \_\_\_\_\_

\_\_\_\_\_

# Glossary

- 4-way** [N-COUNT-U4] A **4-way** is an intersection at which traffic coming from all four directions must stop before proceeding.
- add** [V-T-U6] To **add** numbers is to combine them.
- alley** [N-COUNT-U1] An **alley** is a narrow passageway between buildings or houses that connects one street to another.
- and** [CONJ-U6] **And** is used when combining or adding numbers. For example, one and one equals two.
- articulated truck** [N-COUNT-U11] An **articulated truck** is a vehicle that has a joint about which it can pivot, allowing it to turn sharply.
- asphalt** [N-UNCOUNT-U5] **Asphalt** is a sticky, black liquid that is combined with a solid such as crushed stone to form a road covering.
- avenue** [N-COUNT-U1] An **avenue** is a public road that runs perpendicular to a street.
- backhoe** [N-COUNT-U11] A **backhoe** is a machine with a large digging bucket at the end of a two-piece articulated arm.
- bearing test** [N-COUNT-U13] A **bearing test** is a test on sub grade soil to determine its stability and ability to handle loads.
- bend** [N-COUNT-U14] A **bend** is a part of a road that curves.
- bitumen** [N-UNCOUNT-U5] **Bitumen** is a sticky, tar-like form of petroleum that is a binding agent in asphalt.
- Bituminous Surface Treatment (BST)** [N-UNCOUNT-U5] **Bituminous Surface Treatment (BST)** is a layer of asphalt and fine aggregate used as a roadway seal, especially on a roadway with low traffic volume.
- body of water** [N-COUNT-U14] A **body of water** is a geographical feature that is made up of water, such as a lake or an ocean.
- boulevard** [N-COUNT-U1] A **boulevard** is a wide avenue that often has trees or flowers on the sides.
- box junction** [N-COUNT-U4] A **box junction** is a type of intersection that contains yellow cross-hatching. Cars may only enter the specified area when their exit is clear.
- breakdown lane** [N-COUNT-U3] A **breakdown lane** is an area on a highway that is reserved for vehicles that have broken down and are waiting for repair.
- broom** [N-COUNT-U8] A **broom** is a tool with a long handle and bristles at the bottom that is used to push materials across a surface.
- bulldozer** [N-COUNT-U11] A **bulldozer** is a construction vehicle that travels on tracks with a large blade on its front to push large amounts of material.
- bypass** [N-COUNT-U3] A **bypass** is a highway or road that allows vehicles to go around business routes or local traffic.
- California Bearing Ratio (CBR) test** [N-COUNT-U13] A **California Bearing Ratio (CBR) test** is a penetration soil test that measures the pressure required to penetrate a soil sample in a standard area.
- cement mixer** [N-COUNT-U11] A **cement mixer** is a machine that combines water with cement, sand or gravel to form concrete.
- clay** [N-UNCOUNT-U13] **Clay** is a very fine material found in nature and made of various minerals.
- clear** [V-T-U10] To **clear** an area is to remove objects from it.
- come to** [PHRASAL V-U6] To **come to** a number is to equal that number.
- communicate** [V-I or T-U12] To **communicate** is to express information in a way that can be understood by others.
- compaction** [N-UNCOUNT-U13] **Compaction** is the process of pressing something together to make it denser.
- compactor** [N-COUNT-U11] A **compactor** is a vehicle used to flatten soil, gravel, rock, or asphalt when constructing a road.



## Construction II Roads & Highways

**Career Paths: Construction II—Roads & Highways** is a new educational resource for construction professionals 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: Construction II—Roads & Highways** addresses topics including types of roads, parts of a highway, measurements, earthworks, pavements, curbs, bridges, traffic control and site safety.

The series is organized into three levels of difficulty and offers a minimum of 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:**

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- 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 Book** contains a full answer key and audio scripts.

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