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**Public Relations** 

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# Construction II - Roads & Logistics

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LEVEL CHART

Accounting

Agriculture

Architecture

Art & Design

**Beauty Salon** 

Call Centers

**Civil Aviation** 

Computing

Highways

Criminology

**Dental Hygienist** 

Electrical Engineering

**Emergency Management** 

Environmental Engineering

**Environmental Science** 

**Facilities Maintenance** 

Cooking

Dentistry

Elder Care

Electrician

Electronics

Engineering

Fast Food

**Business English** 

Cinematography

**Civil Engineering** 

**Construction I - Buildings** 

Air Force

Au Pair

Banking

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- Marine Engineering

- Management I Management II

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BANKING





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Pans

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Frame 

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ATURAL RESOURCES I

Medical

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Natural Resources I -



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Petroleum I POLICE



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**Public Relations** 











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88





**Express Publishing** 

# Scope and Sequence

Unit	Торіс	Reading context	Vocabulary	Function
1	The Automotive Industry	Webpage	advertising, automobile, car, consumer, design, distribution, driver, manufacture, market, sales	Describing experience
2	Car Interiors 1	Memo	blinker switch, brake pedal, driver's side, fuse box, gas pedal, glove box, passenger side, rear-view mirror, shifter knob, steering wheel	Expressing disbelief
3	Car Interiors 2	Review	back seat, bench seat, bucket seat, console, cup holder, door panel, handle, headrest, lock, trunk, window switch	Making comparisons
4	Gauges and Meters	Car manual	dashboard, fuel gauge, gearshift position, instrument cluster, odometer, speedometer, tachometer, temperature gauge, voltmeter, warning light	Politely interrupting
5	Suspension	Note	air spring, ball joint, chassis, coil spring, double- wishbone suspension, frame, leaf spring, MacPherson strut, multilink suspension, shock absorber, stabilizer bar, strut suspension, torsion bar	Describing progress
6	Car Exteriors 1	Memo	brake light, bumper, door, fender, headlight, high beam, hood, side mirror, tail light, windshield, wipers	Making polite requests
7	Car Exteriors 2	Memo	blinker, grill, hitch, hubcab, side panel, sunroof, trim, trunk, undercarriage, wheel	Expressing opinion
8	Tires	Product list	diagonal, load index, metric, radial, rim diameter, rim, sidewall, speed rating, tire width, tire, tread	Showing understanding
9	Options	Information sheet	DVD player, entertainment system, GPS, heated seats, leather, navigation system, remote starter, satellite radio	Asking about interest
10	Sedans	Magazine article	body style, box, coupe, fastback, four-door, hatchback, pillar, seat, sedan, two-door	Making an assumption
11	Compacts	Report	C-segment, cargo area, compact car, mid-size, parking, space, subcompact, supermini, urban, vehicle	Offering help
12	SUVs	Magazine article	4x4, cargo barrier, crossover, four-wheel drive, off-road, row, seating, station wagon, SUV, tailgate	Asking for an opinion
13	Trucks and Vans	Memo	bed, cab, full-size, heavy duty, mini, minivan, pickup truck, towing capacity, truck, van	Talking about options
14	Luxury and Sports Cars	Webpage	acceleration, convertible, grand tourer, luxury vehicle, muscle car, pony car, prestige, roadster, sports car, supercar	Expressing preference
15	Commercial Vehicles	Webpage	bus, class,commercial vehicle, fleet, gross vehicle weight rating, heavy, light, mass transit, public transportation, shipping operations	Giving and reacting to news

# **Table of Contents**

Unit 1 – The Automotive Industry4
Unit 2 – Car Interiors 16
Unit 3 – Car Interiors 2
Unit 4 – Gauges and Meters 10
Unit 5 – Suspension
Unit 6 – Car Exteriors 1 14
Unit 7 – Car Exteriors 2
Unit 8 – Tires
Unit 9 – Options
Unit 10 – Sedans
Unit 11 – Compacts
Unit 12 – SUVs
Unit 13 – Trucks and Vans
Unit 14 – Luxury and Sports Cars
Unit 15 – Commercial Vehicles
Glossary



**Express Publishing** 

# Scope and Sequence

Unit	Торіс	Reading context	Vocabulary	Function
1	The Internal Combustion Engine	Encyclopedia	connecting rod, crankcase, crankshaft, cylinder, engine block, fuel, head, piston ring, piston, spark plug, sump, valve	Estimating time
2	The Four-Stroke Engine	Textbook excerpt	compression stroke, cylinder heat, exhaust, exhaust stroke, exhaust valve, four-stroke engine, head gasket, intake stroke, intake valve, power stroke, pressure	Speculating
3	Gas and Diesel Engines	Ad	clean diesel, combustion chamber, compression ratio, diesel, durable, fuel injection pump, gasoline, glow plug, heat up, precombustion chamber, run on	Stating an opinion
4	Fuel Efficiency and Emissions	Webpage	biodiesel, compare, emissions, environmental impact, fossil fuel, fuel cell, fuel efficiency, gas mileage, global warming, mpg, ratio, wells-to-wheels	Making comparisons
5	Hybrids	Report	charge, continuously variable transmission, electricity, energy, generator, hybrid, lithium ion battery, parallel hybrid, plug-in hybrid, reclaim, regenerative braking system, two- mode hybrid	Asking about knowledge
6	Electric Cars	Magazine article	charging dock, charging port, charging station, electric car, electric motor, miles per charge, onboard charger, photovoltaic, range, solar panel, tail pipe emissions	Expressing doubt
7	Brake Systems	Ad	brake booster, brake fluid, brake line, brake pad, brake shoe, brake system, caliper, disc brake, drum brake, hydraulic brake, master cylinder, parking brake, power brakes	Giving a reminder
8	Steering Systems	Webpage	control arm, inner tie rod, outer tie rod, pinion, power steering pump, power steering, rack, rotate, spindle, steering shaft, steering system	Expressing a lack of knowledge
9	Safety Features	Ad	3-point seat belt, ABS, EBD, collision, crumple zone, curtain airbag, DRL, dual-stage airbag, LATCH, side torso airbag, SRS, tether anchor	Expressing disappointment
10	Manufacturing Groups	Newspaper article	acquire, automaker, brand, controlling, group, hold, manufacturer, merger, recognition, share, stake, subsidiary	Asking for an opinion
11	The Dealership	Ad	body shop, dealership, financing office, lobby, lot, mechanic shop, parts desk, refreshments, service facility, showroom, stockroom	Giving directions
12	People at the Dealership	Job ads	accountant, detailer, financial officer, lot porter, manager, mechanic, receptionist, sales staff, salesman, title clerk, warranty administrator, washer	Asking about experience
13	Salary and Incentives	Employee manual	base pay, bonus, commission, flat sales commission, front end, incentive, mini, OTE, pack, percentage commission, percentage, salary, straight commission	Discussing amounts
14	Advertising	Email	advertisement, attention, balloons, campaign, commercial, contest, flyer, give-away, inflatable, magazine, media, on-site, promotion, radio broadcast, sale, television	Making and responding to suggestions
15	Dealership Activities	List	approve, deny, display, greet, issue, maintenance, polish, registration, repair, retail, sell, title, wash	Giving instructions

# **Table of Contents**

Unit 1 – The Internal Combustion Engine
Unit 2 – The Four-Stroke Engine
Unit 3 – Gas and Diesel Engines
Unit 4 – Fuel Efficiency and Emissions
Unit 5 – Hybrids
Unit 6 – Electric Cars
Unit 7 – Brake Systems
Unit 8 – Steering Systems
Unit 9 – Safety Features
Unit 10 – Manufacturing Groups
Unit 11 – The Dealership
Unit 12 – People at the Dealership
Unit 13 – Salary and Incentives
Unit 14 – Advertising
Unit 15 – Dealership Activities
Glossary



**Express Publishing** 

# Scope and Sequence

Unit	Торіс	Reading context	Vocabulary	Function
1	Automotive Design	Webpage	CAD, Class A surface, clay modeling, color and trim design, concept sketch, design, exterior design, graphic design, interior design, powertrain modeling, prototype, scale model	Giving bad news
2	Manufacturing 1	Magazine article	assembly line, implement, inventory, just-in-time production, lean manufacturing, limited, manufacturing, output, overhead, production, raw materials, reduce, streamline, waste	Making a suggestion
3	Manufacturing 2	Memo	analyze, apply, assess, benchmarking, best practice, compare, competitive benchmark, functional benchmark, internal benchmark, measure	Asking for an example
4	Automation	Job ad	actuator, assembly, automation, control unit, degree of freedom, end-effector, flow line, hydraulic, manipulator, oscillation, payload, pneumatic, precision, robot, work envelope	Describing a daily routine
5	Auto Transport	Email	auto rack, auto transport, bi-level, container ship, enclosed trailer, open trailer, overseas, rail, rolling highway, semi-trailer, tractor-trailer, tri-level	Discussing progress
6	Distribution	Guide	carrier, CIP, CPT, DAT, DAP, DDP, distribution, EXW, FCA, incoterms, insurance, loading cost, responsibility, shipping	Making an assumption
7	Pricing	Advice column	approval, cost, destination charge, discount, holdback, invoice price, mark up, market adjustment, MSRP, options, pricing, profit, rebate, sticker price	Asking for an explanation
8	Accounting	Memo	balance sheet, assets, intangible assets, fixed assets, accounts receivable, property and equipment, liabilities, equity, accounts payable, P&L report, revenue, cost of sales, gross profit, net profit	Confirming information
9	Sales 1	Advice column	appearance, appointment, comfort, contact, effective, first impression, generate, influence, inquire, lead, needs, networking, pitch, sales	Asking for a favor
10	Sales 2	Email	business card, check on, contact information, estimate, follow up on, get in touch, hear back from, previously, progress, referral, slip away, update	Introducing yourself on the phone
11	Sales 3	Comment board	approval, capitalize on, check, close, deal, hand over, keys, resistance, seal, signature, test drive, title	Asking for advice
12	Negotiating	Employee manual	anticipate, back down, bargain, calm, compromise, confrontation, include, loss, non-negotiable, offer, pressure, trade-off, walk away from,	Asking for help
13	Financing 1	Poster	apply, cash, checking account, credit history, credit rating, credit report, down payment, financing, interest, loan, terms	Describing a process
14	Financing 2	Approval letter	approval, APR, compound, early payment penalty, finance charge, late fee, monthly, payment, principle, term	Clarifying information
15	Used Car Sales	Ad	accident, assess, condition, damage, dent, excellent, good, history, poor, pre-owned, resale value, third-party, trade-in, used car, value	Giving praise

# **Table of Contents**

Unit 1 – Automotive Design
Unit 2 – Manufacturing 1
Unit 3 – Manufacturing 2
Unit 4 – Automation
Unit 5 – Auto Transport 12
Unit 6 – Distribution
<b>Unit 7 – Pricing</b>
Unit 8 – Accounting
Unit 9 – Sales 1
Unit 10 – Sales 2
Unit 11 – Sales 3
Unit 12 – Negotiating
Unit 13 – Financing 1
Unit 14 – Financing 2
Unit 15 – Used Car Sales
Glossary

# The Internal Combustion Engine

### **Get ready!**

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

- 1 Which parts of an internal combustion engine are located in the engine block?
- 2 What kinds of fuels do internal combustion engines use?

cylinders

crankcase

### The Internal Combustion Engine

Internal combustion engines ignite **fuel** to create useful mechanical energy. Most engines have a tank that holds fuel. Fuel pumps from the tank into chambers called **cylinders**. An engine's cylinders are located between its **head** and its **engine block**. **Valves** control the flow of fuel into and out of the cylinders. Each cylinder contains a **piston** which can move up and down the cylinder. **Piston rings** form seals between the pistons and the walls of the cylinders.

valves

When fuel enters a cylinder, the piston rises. This compresses the fuel at the top of the cylinder. When this happens, a **spark plug** ignites the fuel. The explosion makes the piston shoot down the cylinder. This, in turn, pushes a **connecting rod**. The connecting rod then turns the **crankshaft** in the **crankcase**. The turn of the crankshaft outputs mechanical energy. A **sump** with lubricating oil keeps the engine parts running smoothly.

#### Reading

#### 2 Read the encyclopedia entry. Then, mark the following statements as true (T) or false (F).

- **1** \_\_\_ The cylinders are set between the engine block and the crankcase.
- **2** \_\_\_ Upward movement of the piston compresses fuel in the cylinder.
- **3** \_\_\_ Connecting rods connect the pistons to the crankshaft.

# Vocabulary

connecting rod

3 Match the words or phrases (1-8) with the definitions (A-H).

fuel

piston rings

piston

- 1 \_\_ fuel 5 \_\_ spark plug
- **2** \_\_\_\_ sump **6** \_\_\_\_ piston ring
- **3** \_\_\_\_ valve **7** \_\_\_\_ engine block
- 4 \_\_\_\_ cylinder 8 \_\_\_\_ connecting rod
- A a round hole in the engine block that contains a piston
- **B** a reservoir that holds oil in the engine
- C a device that ignites fuel using electricity
- **D** the main part of an engine to which other parts are attached
- **E** a substance that produces heat or power when burned
- F a rod that links a piston to a crankshaft
- G a ring that creates a seal around a piston
- H a device that opens and closes to control the flow of fluid

#### 4 Read the sentence pairs. Choose which word best fits each blank.

- 1 piston / crankshaft
  - A The \_\_\_\_\_\_ is located near the bottom of the engine.
  - B The \_\_\_\_\_ compresses fuel in the engine's cylinders.
- 2 head / crankcase
  - A The \_\_\_\_\_ covers the top of the engine.
  - B The \_\_\_\_\_is where an engine's sump is located.
- 5 Solution Listen and read the encyclopedia entry again. What does a spark plug do?

### Listening

- 6 Solution Listen to a conversation between a mechanic and a dealership manager. Choose the correct answers.
  - 1 What are the speakers mainly talking about?
    - A where an engine's sump is located
    - **B** what is wrong with a car's engine
    - **C** how internal combustion engines work
    - **D** why some engines have a crankshaft
  - 2 What is the woman going to remove from the engine?
    - $\boldsymbol{\mathsf{A}}$  the crankcase
    - **B** the engine block
    - ${\boldsymbol C}$  the crankshaft
    - **D** the sump

#### 7 Solution Listen again and complete the conversation.

Mechanic:	It looks like the crankshaft became jammed in 1
Manager:	How could something like that happen?
Mechanic:	I would guess that someone just forgot to put oil in the engine. <b>2</b> is pretty dry.
Manager:	Ah, then the lack of lubrication made the <b>3</b>
Mechanic:	Precisely. It should be easy to fix. I just <b>4</b> the crankshaft from the crankcase. And then clean them both, lubricate them, and put them back together.
Manager:	Are you going to need to 5?
Mechanic:	No, I basically have everything that I need already.
Manager:	Oh. So how long do you think the repairs will take?
Mechanic:	6 or two. Two and a half hours at most.

# Speaking

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

#### **USE LANGUAGE SUCH AS:**

I think I know ... / How long ...? / Probably ... at most.

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

- what is wrong with a car's engine
- how to repair the engine
- how long the repairs will take

**Student B:** You are a car dealership manager. Talk to Student A about repairs to an engine.

### Writing

9 Use the encyclopedia entry and the conversation from Task 8 to fill out the engineer's report.

# **Engine Diagnostic Report**

Problem:	
Cause of problem:	
Repairs:	

Estimated time to repair: \_\_\_\_\_

# Advertising

## **Get ready!**

FOURwHeel

magazine

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

- **1** What are the various ways a car dealership can advertise a sale?
- 2 What can a dealership use to attract people to a sale?

To: 'Dealership employees' From: i sena@ceresmotorsnewcrest.com Date: April 8 Subject: Upcoming advertisements

#### Hello everyone,

I just wanted to let you all know about our upcoming advertising efforts. We are currently developing an ad campaign featuring some cool new commercials for various media. They should appear during prime time television and radio broadcasts. We are also developing a matching series of advertisements for local magazines. We hope to capture guite a lot of attention with these ads.

balloons

In addition to the advertisements, we will be running a number of promotions. We will have at least two sales per month from now until October. These are going to be big events, with a lot of on-site entertainment. These will have big contests and cool give-aways. People will be able to win a brand new car. We will even have balloons and an inflatable bouncy castle for the kids. We will send flyers advertising our sales to previous customers. We will also send them out in newspapers.

Let me know if you have any questions or suggestions.

Thanks, Ichiro Sena,

**Branch Manager** 

### Vocabulary

inflatable

3 Match the words or phrases (1-8) with the definitions (A-H).

- 1 \_\_\_ media
- 2 \_\_\_ on-site 6 \_\_\_\_ give-away

5 \_\_\_ magazine

- 3 \_\_\_\_ balloon
- 7 \_\_\_ commercial 4 \_\_\_\_ inflatable 8 \_\_\_\_ advertisement
- A every means of mass communication to be considered as a group
- B capable of being filled with air
- C a free product that companies give out to make people buy products
- **D** a promotion designed to sell a product to people who see it
- E a thin, regularly published book with ads and articles
- **F** occurring or located at a given place
- **G** a rubber bag that is filled with air and used as a toy or decoration
- H an ad that is broadcast on radio or television

radio broadcast

#### Reading

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

1 \_\_\_ The dealership will broadcast commercials on television and radio.

VALUE GUARAN

elevision

- **2** The dealership is going to have one sale each month until October.
- 3 \_\_\_ The dealership plans to hand out flyers to people on the street.

**4** Fill in the blanks with the correct words or phrases below: attention, campaign, contest, promotion, sale, television.

- 1 The man saw the commercial while he was watching
- 2 The sales team decided to launch the new ad \_\_\_\_\_\_ at the end of April.
- 3 A customer won a new car as a prize in a(n) \_\_\_\_\_
- 4 The commercial attracted a lot of \_\_\_\_\_\_ to the dealership.
- 5 We cut the prices of our cars for a(n) \_\_\_\_\_ over the holiday.
- 6 Hopefully, we will gain a lot of attention with this new

6 Solution Content in the second content of the second content

#### Listening

6 Solution Listen to a conversation between an owner and a manager of a car dealership. Choose the correct answers.

- 1 What are the speakers mainly talking about?
  - A the development of a television commercial
  - B how their advertising efforts are working
  - C why some radio commercials are effective
  - D new ways of advertising their dealership
- 2 Which of the following does the man want to decrease the number of?
  - A contests B commercials C sales D flyers

#### 7 🚱 Listen again and complete the conversation.

Manager:	Whenever we make a <b>1</b> , we ask our customers where they heard about us.
Owner:	Oh, that's clever. And what do they say?
Manager:	Well, most of them hear or see our television and <b>2</b>
Owner:	Which parts of our campaign are not doing well?
Manager:	3 those attract almost no customers
Owner:	We should cut back on those. I wonder if having more sales would get us <b>4</b>
Manager:	Maybe. I think we should give a car or two away <b>5</b>
Owner:	That's a good idea, especially if we hand out some <b>6</b>

#### Speaking

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

#### **USE LANGUAGE SUCH AS:**

We should ... That's a good idea. That sounds like a plan.

Student A: You are an owner of a car dealership. Talk to Student B about:

- the dealership's advertising efforts
- how well different advertisements are doing
- ways to attract more people to the dealership

Student B: You are a manager of a car dealership. Talk to Student A about advertising.

#### Writing

Use the email and the conversation from Task 8 to fill out the email to an ad agency.

#### To: cooper@easternvilleads.com

From:g\_hammond@supercarseasternville.com Subject: New Ads

#### Dear Mr. Cooper,

Based on some responses from customers, we would like to change our advertising campaign a bit.

George Hammond, Manager, Supercars of Easternville

# Glossary

- **internal benchmark** [N-COUNT-U3] An **internal benchmark** is a standard set by comparing practices in similar parts of the same organization.
- **inventory** [N-UNCOUNT-U2] **Inventory** is the supply of materials used to manufacture products, as well as completed products that are in storage before being shipped to buyers.

invoice price [N-COUNT-U7] An invoice price is the price the dealer pays for a car.

- just-in-time production [N-UNCOUNT-U2] Just-in-time production is a production technique that involves reducing waste by producing only what is necessary at the moment it is necessary. Signals are used to indicate when materials, labor or equipment is needed.
- keys [N-COUNT-U11] Keys are small pieces of metal used to open the lock of a vehicle and start an engine.

late fee [N-COUNT-U14] A late fee is a fee caused by missing the deadline on a payment.

- lead [N-UNCOUNT-U9] A lead is a person who is a potential client or customer.
- **lean manufacturing** [N-UNCOUNT-U2] **Lean manufacturing** is a manufacturing process that focuses on eliminating waste in the production process and adding value to a product for consumers.

liabilities [N-COUNT-U8] Liabilities are a business's debts and expenses.

limited [ADJ-U2] If something is limited, it is not as large as it could possibly be.

loading cost [N-COUNT-U6] A loading cost is a cost associated with loading the cars onto the carrier.

Ioan [N-COUNT-U13] A loan is a sum of money borrowed and expected to be paid back with interest.

**loss** [N-COUNT-U12] A **loss** is a negative net income.

manipulator [N-COUNT-U4] The manipulator is the arm of a robot.

manufacturing [N-UNCOUNT-U2] Manufacturing is the process of assembling products for sale.

mark up [N-COUNT-U7] A mark up is the amount the dealer increases the price above invoice price to make a profit.

market adjustment [N-COUNT-U7] A market adjustment is a change in price based on the market in which the car is sold.

measure [V-T-U3] To measure something is to estimate or judge it based on certain criteria.

monthly [ADV-U14] If a payment is paid monthly, then it is paid once every month.

MSRP [N-COUNT-U7] An MSRP is the manufacturer's suggested retail price.

needs [N-UNCOUNT-U9] The needs of a customer are his or her desired outcomes from an encounter.

- **net profit** [N-UNCOUNT-U8] **Net profit** is the measure of business's profitability, or the difference between revenue and total expenses.
- **networking** [N-UNCOUNT-U9] **Networking** is the habit of using one's colleagues and professional associations to enhance professional success.
- non-negotiable [ADJ-U12] If something is non-negotiable, it cannot be changed or contested.

offer [V-T-U12] To offer something is to present it.



# AUTOMOTIVE Industry

**Career Paths:** Automotive Industry is a new educational resource for automotive 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:** Automotive Industry addresses topics including the parts of a car, safety features, design methods, manufacturing, and career options.

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:

- 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 detailed lesson plans, a full answer key and audio scripts.

The audio CDs contain all recorded material.







# Construction I







# Construction I Buildings

Book

Virginia Evans Jenny Dooley Jason Revels



# Scope and Sequence

Unit	Торіс	Reading context	Vocabulary	Function
1	Hand Tools 1	Equipment purchase request	claw hammer, flathead screwdriver, hacksaw, hand saw, level, needle nose pliers, Phillips screwdriver, slip joint pliers, tape measure, tool box, utility knife	Describing importance
2	Hand Tools 2	Advertisement	adjustable wrench, box-end wrench, chalk line reel, open-end wrench, plumb bob, sledgehammer, socket, socket wrench, speed square, snips	Making a recommendation
3	Power Tools	Magazine article	air compressor, cement mixer, circular saw, compactor, hammer drill, jackhammer, nail gun, power drill, reciprocating saw, sander	Describing uses
4	Fasteners	Website	anchor, bolt, brad, grade, metric thread, nail, nut, screw, staple, UTS thread, washer	Disagreeing with a suggestion
5	Safety Equipment	Email	dust mask, earplugs, face shield, first aid kit, goggles, grip gloves, hard hat, kneepads, leather gloves, safety glasses, steel-toe boots	Giving a warning
6	Basic Actions 1	Instruction guide	cut, drill, lift, mark, measure, nail, place, push, repeat, screw	Giving instructions
7	Basic Actions 2	Instruction guide	center, check, insert, line up, loosen, remove, slide, support, tighten, turn, twist	Giving instructions
8	Basic Math	Email	add, come to, divide by, equal, minus, multiply, plus, remainder, round up, subtract, total	Talking about amounts
9	Decimals, Fractions, and Percents	Conversion guide	convert, decimal, denominator, fraction, mixed number, numerator, percent, percentage, reduce, whole number	Correcting an error
10	Measurements	Instructions	centimeter, foot, gallon, imperial, inch, kilogram, liter, meter, metric, pound, yard	Identifying an error
11	Materials	Flyer	brick, cinder block, concrete, drywall, flooring, glass, lumber, plastic, rebar, rubber, steel	Checking information
12	Properties and Dimensions	Website	depth, dimensions, height, jamb, length, sill, strength, thickness, weight, width	Describing a change in plans
13	Site Communication	Website	communication, confirm, consult, contact, email, fax, PDF, scan, smartphone, two-way radio	Offering options
14	Parts of a Residence	Advertisement	bathroom, bedroom, garage, kitchen, living room, master bedroom, patio, roof, utility room, walk-in closet	Agreeing with an opinion
15	Parts of a Commercial Building	Email	elevator, emergency, entrance, exit, exit sign, fire escape, floor, hallway, lobby, office, stairwell	Checking items on a list

# **Table of Contents**

<b>Unit 1 – Hand Tools 1</b>
Unit 2 – Hand Tools 2
Unit 3 – Power Tools
Unit 4 – Fasteners
Unit 5 – Safety Equipment 12
Unit 6 – Basic Actions 1
<b>Unit 7 – Basic Actions 2</b>
Unit 8 – Basic Math
Unit 9 – Decimals, Fractions, and Percents
Unit 10 – Measurements
Unit 11 – Materials
Unit 12 – Properties and Dimensions
Unit 13 – Site Communication
Unit 14 – Parts of a Residence
Unit 15 – Parts of a Commercial Building
Glossary



# Construction I Buildings



Virginia Evans Jenny Dooley Jason Revels



# Scope and Sequence

Unit	Торіс	Reading context	Vocabulary	Function
1	Careers	Job listings	carpenter, contractor, electrician, foreman, HVAC technician, laborer, mason, painter, roofer, semiskilled, skilled, subcontractor, unskilled	Describing experience
2	Worksite Safety	Worksite safety poster	4:1 rule, accident, class, closed space, fall, ground, ladder, Material Safety Data Sheet, pump jack, scaffold, toxic, trench safety, ventilation	Expressing dissatisfaction
3	Site Investigation	Letter	clay, drill rig, gravel, level, sand, silt, soil profile, subsurface investigation, surface evaluation, test pit, topographic survey	Asking about requirements
4	Site Layout	Email	batter board, bench mark, builder's level, grade rod, horizontal, monument, property line, run, site plan, stake, utilities, wire	Explaining the order of events
5	Cranes	Brochure	crawler crane, disassembly, mobile crane, operator's cab, outrigger, secure, stabilizer, stationary crane, tower crane, truck mounted crane	Asking for advice
6	Rigging	Instructions	birdcage, chain sling, charred, core, fatigue, kink, knot, lay, link, rigging, sling, strand nicking, web sling, wire rope	Describing damage
7	Excavation 1	Email	dewatering system, drill, excavation, extract, groundwater, pump, runoff, sump, water table, well-point	Selecting an option
8	Excavation 2	Website	concrete slurry, deposit, dig, general excavation, haul, interlocking sheet piling, payline, sloping, soil swell, special excavation, steel soldier piles, tieback, timber lagging	Discussing an option
9	Foundations 1	Website	building load, footing, foundation, freeze, grade beam, monolithic foundation, pier, residential, shallow foundation, spread foundation, stem wall, thaw	Discussing pros and cons
10	Foundations 2	Textbook	bearing pile, caisson, cast-in-place pile, deep foundation, drilled foundation, driven foundation, friction pile, friction plus bearing pile, pile, pile driver, sheet pile	Expressing confusion
11	Formwork 1	Advertisement	consolidation, cure, design strength, formwork, framing, lightweight, mold, prefabricated, reuse, strip, temporary	Describing progress
12	Formwork 2	Article	brace, footing form, line, modular system, permanent insulated formwork, plywood, sheathing, stay-in-place, stud, tie-spreader unit, wale, wall form	Asking about chronological order
13	Floor Plans	Website	appliance, bird's-eye-view, building layout, diagram, dimensions, fixture, floor plan, function, indicate, interior, placement, specify	Asking for more detail
14	Floors 1	Email	beam, diaphragm, floor, joist, joist connection, mudsill, parallel, platform framing, span, subfloor, support, truss	Describing a problem
15	Floors 2	Textbook	above grade, anchor, beam-and-slab, concrete floor, construction joint, cross-braced, drop panel, high-rise, lateral stability, one-way joist slab, one-way solid slab, post-tensioned, span, structural slab, tendon, two-way flat plate slab, two-way solid slab	Reacting to good news

# **Table of Contents**

Unit 1 – Careers
Unit 2 – Worksite Safety6
Unit 3 – Site Investigation
Unit 4 – Site Layout
Unit 5 – Cranes
Unit 6 – Rigging
Unit 7 – Excavation 1
Unit 8 – Excavation 2
Unit 9 – Foundations 1
Unit 10 – Foundations 2
Unit 11 – Formwork 1
Unit 12 – Formwork 2
Unit 13 – Floor Plans
Unit 14 – Floors 1
Unit 15 – Floors 2
Glossary



# Construction I Buildings

Book 3

Virginia Evans Jenny Dooley Jason Revels



# Scope and Sequence

Unit	Торіс	Reading context	Vocabulary	Function
1	Prints 1	Email	complex, cross section, elevation, horizontally, irregular, isometric drawing, oblique drawing, orthographic projection, plan view, section, sketch, vertically	Introducing a problem
2	Prints 2	Textbook	architect's scale, centerline, cutting-plane line, dimension line, extension line, hidden line, leader, object line, scale, scale drawing	Asking for clarification
3	Concrete Work 1	Webpage	aggregate, air entrainment, bind, cement paste, coarse aggregate, concrete, fine aggregate, heavyweight concrete, insulating concrete, lightweight concrete, normal-weight concrete, set, shrink, void	Correcting an assumption
4	Concrete Work 2	Website	air content test, cleanliness, collapse, colorimetric test, gradation, moisture test, organic impurity, shear, silt test, slump test, soundness, specific gravity, true slump, water:cement ratio	Changing the subject
5	Concrete Work 3	Website	belt conveyor, bucket, buggy, chute, countercurrent mixer, drum mixer, finish, float, mixing, place, screed, strike off, trowel, uniformity, wheelbarrow	Emphasizing a point
6	Timber Frames	Construction manual	dead load, deflection, glued-laminated timber, glulam rivet, live load, pin-type connection, shear plate, split-ring connector, timber connectors, transfer, truss plate timber	Describing uses
7	Steel Frames	Safety guidelines	anchor bolt, ASTM designation, bearing plate, bearing-type connection, bolting, column, erection mark, fillet weld, friction- type connection, gauge, girder, groove weld, member, open-web steel joist, pitch, section shape, steel frame	Confirming details
8	Concrete Frames	Website	brittle, concrete frame, coupler, cover, lap splice, mechanical splice, precast, prestressed, reinforcement, splice, tensile strength, welded splice, welded wire reinforcement, wire mesh	Stating an opinion
9	Doors and Windows	Product descriptions	automatic door, awning, bifold door, casement, double-hung, fire door, fixed, frame sash, hopper, pane, pocket door, revolving door, sliding	Describing options
10	Insulation	Work order	asbestos, batt, building envelope, glass wool blanket, insulating concrete form (ICF),insulation, loose fill, natural fiber, R-value, rigid panel, spray polyurethane foam (SPF), vapor retarder	Expressing doubt
11	Stairs	Instructions	baluster, balustrade, banister, flight, going, landing, newel, nosing, riser, riser height, spandrel,stairs, stringer, tread, tread depth	Making an apology
12	Masonry	Advertisement	bearing wall, cavity wall, curtain wall, grout, mason, masonry, masonry unit, mortar, multiwythe, single wythe, veneer	Describing benefits
13	Roofs 1	Article	drain, elements, flashing, gravel stop, gutter, parapet, rain, roof, roof deck, roof frame, roof membrane, scupper, slope, snow, vapor barrier, walk	Giving assurances
14	Roofs 2	Advertisement	eave, flat roof, gable, gambrel, hip, low slope roof, mansard, purlin, rafter, rake, shake, shed, shingle, vent	Describing attributes
15	Finishing	Email	cladding, cornice, drop ceiling, exterior finishing,finish, install, interior finishing, painting, partition, plaster, siding, tile, trim	Discussing options

# **Table of Contents**

Unit 1 – Prints 1
Unit 2 – Prints 2
Unit 3 – Concrete Work 1
Unit 4 – Concrete Work 2 10
Unit 5 – Concrete Work 3 12
Unit 6 – Timber Frames 14
Unit 7 – Steel Frames
Unit 8 – Concrete Frames 18
Unit 9 – Doors and Windows
Unit 10 – Insulation
Unit 11 – Stairs
Unit 12 – Masonry
Unit 13 – Roofs 1
Unit 14 – Roofs 2
Unit 15 – Finishing
Glossary

# **Safety Equipment**



Dear Site Managers,

Last week, an employee was injured. A cement block fell and broke his toes. We want to avoid these injuries.

Remind all employees to wear personal protective equipment (PPE). To enter the construction site, everyone needs steel-toe boots, hard hats, and safety glasses or goggles. Employees need to wear leather gloves when nailing, doing electrical work, and sanding or cutting wood. Dust masks or face shields are also essential for wood cutting. Earplugs are necessary when working with loud tools like jackhammers. Anyone handling a power tool must also wear grip gloves. Kneepads must be worn when working on the ground.

Finally, keep first aid kits on site. Make sure everyone knows where they are. If we follow these guidelines, injuries won't be a problem.

Thanks. Tim Klein **Owner, Desert Construction** 

#### **Get ready!**

- 1 Before you read the passage, talk about these questions.
  - 1 What is some safety equipment used on a construction site?
  - 2 What safety equipment protects a worker's feet?



2 Read the email on safety equipment. Then, complete the table using information from the email.

Situation	PPE needed
Arriving at the construction site	
Working with wood	
Using loud power tools	

### **Vocabulary**

#### 3 Write a word or phrase that is similar in meaning to the underlined part.

- 1 Wear a partial face covering that protects your mouth and nose when you sand wood. \_\_\_t m\_\_\_
- 2 When installing floors, wear equipment that protects the knees. \_\_\_\_p\_ds
- 3 John wore small pieces of plastic so that the noise from the machinery didn't hurt his ears. \_\_rp\_\_\_\_
- 4 To avoid head injuries from falling objects, wear a helmet made of plastic or metal.
  - \_\_t \_ \_ r \_
- **5** Greg wasn't hurt when he dropped the wood because he was wearing shoes that have extra reinforcement at the toes.
  - \_\_\_\_l-\_o\_ \_\_\_ts
- 6 Using some chemicals or tools requires a protective covering for your entire face. \_a\_\_ \_h\_\_\_d
- 7 Protective eyewear that shields the eyes and area around them are necessary when drilling. \_\_\_|s

# Match the words (1-4) with the definitions (A-D).

- 1 \_\_\_\_ first aid kit
- 3 \_\_\_\_ safety glasses
- 2 \_\_\_\_ grip gloves
- 4 \_\_ leather gloves
- A safety equipment that protects the hands
- **B** a container that has items needed to treat a small injury
- C protective eyewear that uses shatterproof glass
- **D** protective equipment that helps people to hold things firmly

5 Solution Listen and read the email on safety equipment again. What do you think is the most important piece of safety equipment? Why?

### Listening

- 6 Solution Listen to a conversation between a manager and a construction worker. Mark the following statements as true (T) or false (F).
  - 1 \_\_\_ The man is not wearing his safety equipment.
  - **2** \_\_\_\_ The company was fined by an inspector.
  - **3** \_\_\_ The man received a written warning.

# C Solution Listen again and complete the conversation.

Manager:	Richard, where are your hard hat and safety glasses?
Worker:	l just <b>1</b>
Manager:	Well, you need to wear them <b>2</b> Otherwise, the safety inspectors can fine us.
Worker:	I'm sorry. It's just that it's so hot 3!
Manager:	I know it is. But you could be hurt or killed <b>4</b>
Worker:	Okay. I'll put them <b>5</b>
Manager:	Thank you. This is just a verbal warning. <b>6</b> , it'll be a written warning.
Worker:	I understand!

#### Speaking

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

#### **USE LANGUAGE SUCH AS:**

Where are your ...? You need to wear ... Next time ...

**Student A:** You are a construction site manager. Talk to Student B about:

- a piece of safety equipment
- why the person needs to wear it
- the consequences of not wearing it

**Student B:** You are a construction worker. Talk to Student A about proper personal protective equipment.

#### Writing

9 Use the email and the conversation from Task 8 to fill out the written warning.



# Written Warning

Employee name:	
Date of incident:	

Reason for warning: \_\_\_\_

Actions Taken: \_\_\_\_\_

# **Concrete Frames**

- mechanical splice

ABOUT US SERVICES CONTACT

lap splice

# concrete frame



Just because your structure has a concrete frame does not mean you won't need steel components. Plain concrete is brittle and subject to serious failure. Steel reinforcement is an essential part of a concrete frame to improve its tensile strength. RZY Steel provides the reinforcing bars necessary to guarantee a long, secure life for your structure. They can be applied to either a precast concrete frame or one that is cast-in-place, as well as to prestressed concrete.

When evaluating your reinforcing steel needs, you should keep a few considerations in mind. First, there must be enough cover to protect the steel from the environment. Second, our steel bars come in certain sizes. You will likely need to **splice** them together on site. It is important to know the proper kind of splice for your job. A lap splice is very common and easy. A mechanical splice may be used when bars have large diameters. We can supply you with the couplers required for this splice. We also manufacture special steel that is well-suited to a welded splice.

In addition to bars, we also make wire mesh used in welded wire reinforcement. This type of reinforcement is easy to place with large concrete slabs.

#### Vocabulary

3 Match the words (1-8) with the definitions (A-H).

- 1 wire mesh 4 splice 7 \_\_\_\_ cover
- **2** \_\_\_\_ reinforcement

- A something that is placed over something else in order to hide or protect it
- **B** formed and cured at a plant and brought to a building site
- C breaks or snaps easily
- D a device used to splice pieces of reinforced steel consisting of two female ends
- E to permanently join pieces of reinforcing steel together
- F concrete that has had tendons added to overcome its weakness in tension
- G something that is added to something else to make it stronger
- **H** a material made of wire rods formed into grids with little spacing between wires, used to reinforce concrete

**Get ready!** 

welded wire reinforcement

couplers

welded splice

- Before you read the passage, talk about these questions.
  - 1 What type of reinforcement uses wire mesh?
  - 2 What are some different ways to splice reinforcing steel?

#### Reading

- 2 Read the website from a rebar and coupler manufacturer. Then, mark the following statements as true (T) or false (F).
  - **1** \_\_\_\_ Reinforcing steel is not needed with cast-in-place concrete frames.
  - 2 \_\_\_\_ A coupler is needed for a mechanical splice.
  - Wire mesh works well with 3 concrete slabs.

- 8 \_\_\_ prestressed
- 5 \_\_\_ precast 6 brittle
- 3 coupler

# 4 Read the sentence pairs. Choose which word or phrase best fits each blank.

- 1 concrete frame / lap splice
  - A A \_\_\_\_\_\_ is the most common way to join reinforcing steel together.
  - **B** This \_\_\_\_\_ needs to be reinforced with steel to be stronger.
- 2 welded splice / welded wire reinforcement
  - A Special reinforcing steel is used because a \_\_\_\_\_\_ needs a lot of heat.
  - **B** This concrete is reinforced by a sheet of
- 3 tensile strength / mechanical splice
  - A Reinforcement is required to overcome concrete's lack of \_\_\_\_\_
  - B A metal sleeve joins pieces of steel in a
- 5 Solution Listen and read the website for a rebar and coupler manufacturer again. What products does the company sell?

#### Listening

- 6 Solution Listen to a conversation between a contractor and a worker. Choose the correct answers.
  - 1 What is the conversation mainly about?
    - A the benefits of a concrete frame
    - **B** why welded splices are necessary
    - **C** requirements for a new framing job
    - **D** why rebars are better than wire mesh reinforcement
  - 2 Why does the client not like lap slices?
    - A They do not look good.
    - **B** They are too expensive.
    - **C** They are not strong enough.
    - **D** They take too long to install.



# C Solution Listen sten again and complete the conversation.

Contractor:	The pieces we ordered are all <b>1</b> segments.
Worker:	So we'll need to do a lot of splicing.
Contractor:	Right. We have a few different <b>2</b> available.
Worker:	Well, there's always lap splicing. That's the quickest and <b>3</b> way to do it, right?
Contractor:	Yes, but the client doesn't like <b>4</b> They think it's not secure enough.
Worker:	That's too bad. <b>5</b> instead?
Contractor:	Well, the client paid for larger diameter bars. They're <b>6</b> mechanical splices.

#### Speaking

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

#### **USE LANGUAGE SUCH AS:**

Our next project will be ... We'll use ... That client doesn't like ...

Student A: You are a contractor on a new concrete frame project. Talk to Student B about:

- what kind of reinforcement to use
- the client's opinion of a kind of splicing

**Student B:** You are a worker. Talk to Student A about a new concrete frame project.

#### Writing

- Use the website and the conversation from Task 8 to write a project summary. Write about:
  - · the kind of project
  - the need for reinforcement
  - the kind of splicing that will be used

# Glossary

add [V-T-U8] To add numbers is to combine them.

adjustable wrench [N-COUNT-U2] An adjustable wrench is a wrench with an opening that can be changed in size.

- **air compressor** [N-COUNT-U3] An **air compressor** is a tool that creates energy by increasing pressure on gas or electrical power and releases it in short bursts. This energy is used to power other devices.
- anchor [N-COUNT-U4] An anchor is a fastener often used when screws, nails, or other fasteners are impractical or ineffective.
- bathroom [N-COUNT-U14] A bathroom is a room where people use the toilet and take a shower or bath.
- bedroom [N-COUNT-U14] A bedroom is a room where a person sleeps.
- **bolt** [N-COUNT-U4] A **bolt** is a metal fastener with a threaded body that is held in place with a nut on the end opposite the head.
- **box-end wrench** [N-COUNT-U2] A **box-end wrench** is a wrench with an enclosed opening that grasps the face of a bolt.
- brad [N-COUNT-U4] A brad is a thin, small nail with a slight projection at the top on one side.

brick [N-COUNT-U11] Brick is a building material made of rectangular blocks of hardened clay.

- cement mixer [N-COUNT-U3] A cement mixer is a machine that combines the components that make cement in a large circular barrel that rotates.
- center [V-T-U7] To center something is to move it so that it is in the middle of an area.
- centimeter [N-COUNT-U10] A centimeter is a metric unit of length equal to 1/100th of a meter.
- chalk line reel [N-COUNT-U2] A chalk line reel is a tool for marking a long, straight line on a flat surface.
- check [V-T-U7] To check something is to make sure it is correct.
- cinder block [N-COUNT-U11] A cinder block is a lightweight building block made from concrete.
- circular saw [N-COUNT-U3] A circular saw is a tool that uses a rotating metal disk with sharp teeth to cut through wood or metal.
- claw hammer [N-COUNT-U1] A claw hammer is a tool used to insert nails into a wall or other object.
- come to [PHR V-T-U8] To come to an amount is to add up to that amount.
- communication [N-UNCOUNT-U13] Communication is sharing information with someone.
- compactor [N-COUNT-U3] A compactor is a machine that bounces on the ground to compact soil.
- concrete [N-UNCOUNT-U11] Concrete is a mix of cement, water, gravel, and sand used as a building material.
- confirm [V-T-U13] To confirm a statement is to make sure it is true.
- consult [V-T-U13] To consult someone is to ask him or her for his or her opinion or advice.
- contact [V-T-U13] To contact someone is to begin exchanging messages with him or her.
- convert [V-T-U9] To convert a number is to change it from a fraction into a decimal, or vice versa.
- cut [V-T-U6] To cut something is to divide it with a sharp instrument such as a saw.
- **decimal** [N-COUNT-U9] A **decimal** is a number with digits to the right of a decimal point, expressing part of a whole number.
- denominator [N-COUNT-U9] A denominator is the bottom number of a fraction.
- **depth** [N-UNCOUNT-U12] **Depth** is the distance measurement of something from its front to its back or its bottom to its top.
- **dimensions** [N-PLURAL-U12] **Dimensions** are basic physical properties of an object, such as height, width, or weight. **divide by** [V-T-U8] To **divide** one number **by** another is to split the first number into an equal number of parts.
- drill [V-T-U6] To drill something is to create a hole in it by using a drill.



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The audio CDs contain all recorded material.





# GAREER PATHS APPS





- Complete digital version of book
- Subject-specific videos
- Instant feedback on all tasks
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Express

- Career-specific dialogues preparing students to use the language in real-life situations
- Glossary of terms and phrases with pictures, definitions, examples and audio







YOUNG ADULTS & ADULTS

#### Elementary to Upper-Intermediate





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PRIME TIME	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
Student's Book	978-1-78098-442-1	978-1-78098-445-2	978-1-78098-448-3	978-1-4715-0021-3	978-1-4715-0321-4
Student's Book with ieBook	978-1-4715-0367-2	978-1-4715-0368-9	978-1-4715-0369-6	978-1-4715-0680-2	978-1-4715-5049-2
Teacher's Book	978-1-78098-444-5	978-1-78098-447-6	978-1-78098-450-6	978-1-4715-0023-7	978-1-4715-0323-8
Workbook & Grammar with DigiBooks app	978-1-4715-6585-4	978-1-4715-6586-1	978-1-4715-6587-8	978-1-4715-6588-5	978-1-4715-6589-2
Public Speaking Skills Student's Book	978-1-4715-5272-4	978-1-4715-5391-2	978-1-4715-5447-6	978-1-4715-5449-0	978-1-4715-5451-3
Public Speaking Skills Teacher's Book	978-1-4715-5380-6	978-1-4715-5392-9	978-1-4715-5448-3	978-1-4715-5450-6	978-1-4715-5452-0
Interactive Whiteboard Software (Downloadable)	978-1-4715-9350-5	978-1-4715-9351-2	978-1-4715-9352-9	978-1-4715-9353-6	978-1-4715-9354-3

Class Audios, Tests & Teacher's Resources downloadable from www.teachers-corner.co.uk/free-resources



*i Discover* is a multi-level edition of *Prime Time American English*. The course combines active English learning with a variety of lively topics presented in themed modules.

Please contact founders@k12framechange.com for further details or queries on correlations.







# **Interactive English Pathways**

- Interactive progressive, learner responsive (3) level program
- Aligned to international benchmarks (CEFR: A1, A2, B1), TESOL, IELTS
- Integrates international assessment preparation (IELTS, TOEFL)
- Dual implementation models: integrated skill modules and independent skill-based modules
- Integrated assessment to monitor progress and achieved learning (diagnostic, progressive and cumulative interactive assessments)
- Learning versus Assessment Mode. Learning mode allows for several trials regardless of number of errors and can be restricted.
- Assessment mode restricts the number of trials a learner can do
- Customizable to meet needs of individual institutes, schools and universities
- Accessed through local Learning Management System or through dedicated course platform
- Termly updates and improvements

Beginner to Upper-Intermediate

- Skill boxes highlight key functions and concepts.
- Audio and text used to convey instructions and support learner needs and requirements.
- Voice recognition feature to support pronunciation
- Self-paced, learner dependent
- Instructional Animations and Videos to support independent learning
- Skill areas
- Listening and Speaking
- Vocabulary and Spelling
- Reading
- Language Functions and Grammar
- Writing skills and sub-skills





Please contact founders@k12framechange.com for further details or queries.



# Upload

BEGINNER TO UPPER-INTERMEDIATE LEVEL VIRGINIA EVANS – JENNY DOOLEY

**Upload** is a series of five courses in themed modules for young adult or adult learners of English at beginner to upper-intermediate level. The series aims to develop learners' language and thinking skills.

- Realistic dialogues featuring people in everyday situations
- Development of vocabulary and grammar skills through interactive tasks
- Writing sections containing models and project work
- ICT tasks to help students research a topic further



Please contact founders@k12framechange.com for further details or queries.



