



# Unit 1: Teamwork

- Talk about roles and responsibilities
- Explain how an organization works



# Roles and responsibilities



# Roles and responsibilities

Match these description	ons with the people in	n the illustration
1. I'm I wo	rk for a concrete sup	plier. We deliver
concrete to construction	on sites all over the co	ountry.
2. I'm This	is my apprentice.	
3. I'm Tod	ay I'm painting a stee	l staircase.
4. I'm I co	ntrol access to the sit	e. I'm responsible to the
site manager.		
5. I'm My	company is responsil	ole for the whole
project.		
6. We're V	Ve're visiting the site	to ask some questions.
Site manager	Driver	Electrician
Security guard	Reporters	Painter

# Roles and responsibilities







Site manager

**Painter** 

**Security Guard** 







**Electrician** 

Plumber

Welder

# Roles and responsibilities







Glazier

Architect

Carpenter







Bricklayer

Surveyor

**Equipment operator** 

# Roles and responsibilities

- 1. We build walls, buildings, etc with bricks
- 2. We visit the site to ask some questions
- 3. We make and repair wooden objects
- 4. We control access to the site
- 5. We paint houses or other buildings
- 6. We weld metal in a factory
- 7. We repair pipes, baths, toilets etc
- 8. We connect or repair electrical wires or equipment
- 9. We design buildings
- 10. We fit glass into window frames
- 11.I'm responsible for managing all works on the site

### LISTENING



# LISTENING

•	M: So how can I help you?
•	S: Well, we'd like some(1) information about the project.
•	M: OK, I can ask my(2) to send you some details. We sent out a press release a couple of weeks ago.
•	S: Yes, we have a copy of that, thank you. We're interested in finding out more information about the people working here. How many(3) do you have on site? What do they do? Where are they from? Are they all local people?
•	M: Oh, that depends on what's happening. As you can imagine, this is quite a(4) business, so we have different(5) and(6) coming in and out all the time.
•	S: OK.
	LISTENING
•	M: But, to answer your question, I'd say we usually have about 100 people on site. And they're mostly from this area.  A: And you're in charge of the site?
•	,
•	M: Well, yes, my company - actually, my father's company - is the(7) for the project. We co-ordinate all the subcontractors and make sure things stay on schedule and stay within budget. I report to the(8), Sabina Tom.
•	A: I see. And your father is Kasper Karp?
•	M: Yes, that's right. Sometimes, on bigger projects, we work in a consortium with other(9) and(10).

### LISTENING

- S: Could you tell us something about...?
- M: Excuse me, I've just seen Mr Lang. He's walking through the gate. He represents the \_\_\_\_\_\_(11), and I have a meeting with him and Anna Black in a few minutes' time ...
- S: Anna Black?
- M: Anna works for the \_\_\_\_\_\_(12), DKI Cement. They're supplying all the cement for the project. Just a moment, please. My assistant, Robert Lane, will answer any further questions you have.
- S and A: Thank you.

### **SPEAKING**

Work in pairs. Explain what your jobs is and what you do. Example like this:

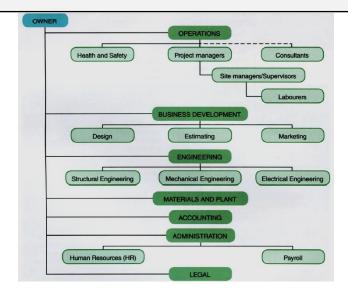
I'm a ...

I work for ...

My company ...

I'm responsible for ...

### Structure of an organization



### Structure of an organization

departments divided external has look part report section 1 Our company has a simple structure. At the \_\_ \_ is Kasper Karp, the owner. 2 There are seven \_\_\_\_\_\_. The department heads report to the owner. 3 Operations consists of a Health and Safety \_\_\_\_\_ and all the project managers. 4 The site managers and supervisors \_\_\_\_\_\_ directly to a project manager.
5 Business Development is \_\_\_\_\_\_ into three sections: Design, Estimating and Marketing. 6 Engineering also \_\_\_\_\_\_ three sections: Structural, Mechanical and Electrical. 7 There are different departments which \_\_ \_\_\_\_\_ after materials and plant, accounting, administration and legal. 8 Sometimes we have \_\_\_\_\_ consultants to help with special jobs. They are not \_\_\_\_\_\_ of the company.

### Structure of an organization

Listen the heads of the seven departments talking about their roles. Write the names of their departments. Use the organization above to help you.

1.			 	
7.				

### Structure of an organization

- 1. Support (n) help
  - Fleet (n) a group of vehicles that are controlled by one company
  - Liaise (v) exchange information with another organization
- 2. Claim (n) official request for money
- 3. Phase (n) one of the stages of a process
- 4. Income >< outgoings
- 7. Recruit (v) find new people to do a jobExpense (n) money that spend on somethingWage (n) ≠ Salary (n) money you receive for your work

# Unit 2: Design

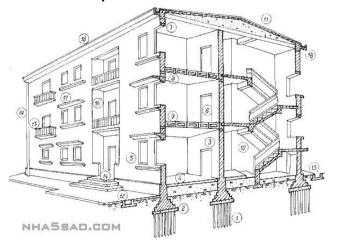
- Describe technical drawings
- Estimate



17

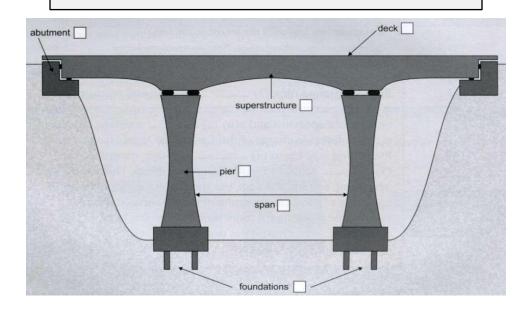
### **TECHNICAL DRAWING**

#### Look at the picture and name the elements numbered:

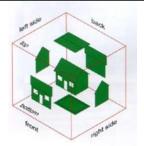


Pile Foundation Pavement Floor Wall Door Window Stairs Steps Lintel Loggia Balcony Gutter Down pipe Drainage ditch Drip mould Roof

### **TECHNICAL DRAWING**



### **TECHNICAL DRAWING**



Orthographic projection



**Perspective projection** 



Floor plan



Elevation



**Cross section** 



**Exploded view** 

### **TECHNICAL DRAWING**

### Complete this text with the words above:

There	are	many	ways	of	putting	a	3D	object	into	2D.
		can	be for	und	on all co	nsti	ructio	on proje	cts. Tl	nese
drawin	igs sh	ow dif	ferent	viev	vs of the	e ol	oject	, and ca	an inc	lude
		(a v	view fr	om	one side	) ar	nd			(the
view w	hen '	you cut	throug	gh a	n object)	. Ar	nothe	er type o	of drav	wing
shows			, w	hich	are very	/ us	eful	for und	erstan	ding
the ass	sembl	y of an	object	, in (	other wo	rds	how	it all fits	s toge	ther.
A third	type	e of dra	awing i	s			, w	vhich all	ows u	ıs to
see an	obje	ct fron	n abov	e. A	typical	exa	mple	of this	is a f	loor
plan. T	hese	are ver	y usefi	ıl w	hen we v	van	t to l	look at t	he fitt	ings
in deta	il, in	other w	ords w	here	e objects	like	coo	kers and	baths	go.

# TECHNICAL DRAWING

	Words	Meanings
1.	Elevation	a. A 2D representation of a 3D object
2.	Beam	b. The view from one side
3.	Roof	c. The view when you cut through an object
4.	Projection	d. The view from above
5.	Girder	e. A long heavy piece of material used in houses, bridges, etc
6.	Column	f. Strong beam
7.	Frame	g. A frame supporting a roof
8.	Plan view	h. Structural element that transmits, through compression, the
		weight of the structure above to other structural elements below
9.	Truss	i. An upright flat structure made of stone or brick, that divides or
		surrounds an area
10.	Section	j. The main supporting parts of houses, bridges, etc
11.	Wall	k. The structure that covers the top of a building

### LISTENING

# Listen and complete a conversation

# **ESTIMATE**

WRITING	SAYING
2.000 m	
0,03 cm	
1,34 m	
3m x 4 m	
25 m2	
600 m <sup>3</sup>	
200 ± 1 mm	
1:100	
20 x 30 = 600	
12/5	
$\pi r^2$	
$2\pi r$	
$\sqrt{64} = 8$	

### **ESTIMATE**

#### Say these dimensions and calculations:

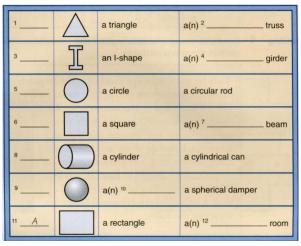
- > 3,065 mm
- > 5 x 6 = 30
- > 4,632 m<sup>2</sup>
- > 100 / 5 = 20
- > 2.500 sq ft
- $> \sqrt{36} = 6$
- ➤ 34m x 28m
- > 5 + 3 1 = 7

> 26' ± ½"

 $> 7^2 = 7 \times 7 = 49$ 

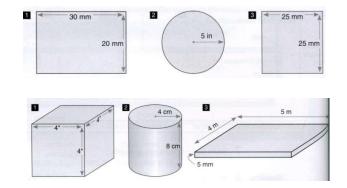
### **ESTIMATE**

### Complete this table about some shapes:



### **ESTIMATE**

#### Calculate the areas and volumns



### **READING**

### Read text and answer some questions

- 1. What are the structural elements of building?
- 2. What may columns and beams are constructed of?
- 3. Where may pre-cast units be prefabricated?
- 4. Which units may be precast?
- 5. What does a bearing wall and curtain wall do?

### LISTENING

Listen to an architect describing the house. Write the dimensions you hear.

- 1. total area \_\_\_\_\_\_.
- 2. main room, with the kitchen \_\_\_\_\_\_.
- 3. bedroom \_\_\_\_\_.
- 4. bathroom \_\_\_\_\_.
- 5. height of rooms \_\_\_\_\_\_.
- 6. doors, not including frames \_\_\_\_\_\_.

# Unit 3: Equipment

- Talk about usages of equipments



# **EQUIPMENT**

Name some equipments and tools in construction site below:



# Talking about equipment

Listen and name those machines.

1.	 		
2.			
3.			
4.			
5.			
6.			
7.			

# Talking about equipment

Work in pairs to talk about description, usage of some equipments like that:

1) What does a bulldozer do?

It can \_\_\_\_\_.

It's for \_\_\_\_\_.

It's used for\_\_\_\_\_.

2) What do you use jackhammer for?

I use it for \_\_\_\_\_\_.

# Mixing concrete

Some equipments and tools in mixing concrete



### Mixing concrete

Read this text about mixing concrete and choose True (T) or False (F):

- 1. Concrete mixers mix and pour concrete.
- 2. For small quantities of concrete, transport trucks are ideal.
- 3. Portable mixers use electricity.
- 4. Cranes lift hoppers full of chute men to the job site.
- 5. In-transit mixers rotate during transport.

oncrete mixers mix and pour concrete. For small quantities of concrete, hand mixers are ideal. The portable mixer has wheels and uses electricity. It has a small drum which rotates. Concrete transport trucks – or in-transit mixers – transport large quantities of concrete to the site. The drum rotates during transport. The chute man pours the concrete down the chute, or uses a pump to get the concrete to difficult locations.

Sometimes a crane lifts a hopper full of concrete to the job site.

### Unit 4: Materials

- Describe properties of materials
- Order materials



# Properties and Usages



### Order materials

#### Listen a conversation and correct 4 mistakes



### Order materials

#### Listen a conversation and complete

A: Hello?
B: Just one moment, please. Sorry about that. OK, \_\_\_\_\_\_\_(1).
A: Ah good. Thank you. My name 's Lopez. Who am I speaking to, please?
B: Christina Dudek. How can I help you?
A: I'm calling about a problem with an \_\_\_\_\_\_\_(2). We ordered some \_\_\_\_\_\_\_(3).
B: Hasn't it \_\_\_\_\_\_\_\_(4)?
A: Yes, yes, it's here. That's not the \_\_\_\_\_\_\_\_(5).
B: Is it the \_\_\_\_\_\_\_\_(6) sand?
A: No, it's the right sand. But it's the wrong \_\_\_\_\_\_\_\_(7).
B: What do you mean?

### Order materials

#### Listen a conversation and complete

A: Well, we ordered three 10 kg bags. And we received three \_\_\_\_\_(8).

B: So are you saying that we sent you three truckloads?

A: Yes, that's right. No, wait.. Now we have six truckloads! Three more have just arrived...

B: Where is the sand now?

A: In our car park. Our security guard didn't check the \_\_\_\_\_(9) - he just signed for it.

B: Oh, no.

A: Oh yes. They unloaded six trucks before we could stop them.

B: Did you say unloaded? Oh, no...

### Order materials

# Work in pairs. Practice a telephone conversation between a supplier and a buyer. Using some phrases in the box

Example:

- 1) A: I'd like to place an order. We need thirty bags of cement.
  - B: Certainly. What's your customer number? Do you have transport?
  - A: No, I'm sorry. I don't.
  - B: No problem. We organize delivery. Where is the site?
- 2) A: I want to order some timber.
  - B: I'm sorry. We're out of stock.

1	In stock/ out of stock
2	Customer number/ order number
3	Delivery/ pick up
4	Place an order/ change an order
5	Type of goods/ quantity

### Order materials

#### Work in pairs. Practice a conversation about ordering materials

- 1. Type of goods
- 2. Quantity
- 3. Delivery
- 4. Cost
- 5. Payment

# Reading

Read the text in page 16 and answer these questions

- 1. What kinds of raw materials can be used to make concrete?
- 2. What are advantages of concrete?
- 3. In what case can concrete crack and how to solve that?
- 4. How to make concrete more effective?
- 5. How many ways are applied for making concrete? What are they?

### **MIDTERM EXAM**

# Unit 5: Processes

- Concrete process
- Recruiting process
- Write a CV



4.

### Processes

### Match the words with their meanings

1. This is a <b>routine</b> job, we do it	a) Outcome
everyday	
2. What is the <b>procedure</b> for setting	b) Steps
out?	
3. There are 3 <b>stages</b> in the process	c) Normal
4. The <b>result</b> is a straight line	d) Standard way of
J	a, Standard way or
Ü	operating

#### **Processes**

Complete this text with the words in the box.

Finally | First | result | routine | stages | Third

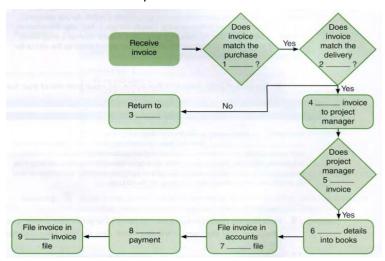
We do this every day: it's (1) \_\_\_\_\_\_. The procedure is simple. There are only seven (2) \_\_\_\_\_ and the (3) \_\_\_\_\_ is always the same. (4) \_\_\_\_\_\_, you smile at the guard and say 'Good morning'. Second, the guard smiles back and says 'Good morning'. (5) \_\_\_\_\_\_, the guard asks you for your ID. After showing him your ID, the guard smiles and says 'Thank you'. Then you also smile and say Thank you'. (6) \_\_\_\_\_\_, you enter the site.

### **Processes**

First, ... Second, ... Third, ...
First of all, ... (Note that we do not say Second of all, ...)
Next
After that, ... /After + -ing ...
Then
Finally, ...
That's all I want to say about ...
Moving on to the next step ...
Before that, ... /Before + -ing ...

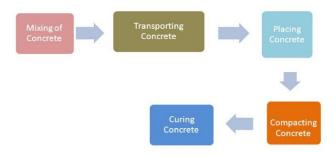
# Reading

Read the text and complete the flowchart



# Speaking

Work in groups, use sequencing markers to explain the process of concreting



# Listening

recruit (v)	to find new people to work in a company
advertise (v)	to make an announcement, e.g. in a newspaper, that a job is available
interview (n)	a formal meeting at which someone is asked questions in order to find out whether they are suitable for a job
reference (n)	a person who provides information about your character and abilities
identify (v)	to recognize and correctly name someone or something
skill (n)	an ability to do something well
applicant (n)	someone who has formally asked for a job
prepare (v)	to make plans or arrangements for something that will happen in the future
update (n)	the most recent information about something
shortlist (n)	the final few applicants for a job, normally invited for a second interview

# Homework

Write a CV for your job application.

# Unit 6: Projects

- Classification
- Gant chart
- Contracts
- Meetings



### Classification

# **Type of Construction Works**

**Residential Project** 

**Industrial Project** 

**Transportation Project** 

**Infrastructural Project** 

Agricultural and Rural Development Project

**Defense - Security Project** 

# Classification

**Project of national importance** 

The sizes, importance

Project group A, B, C

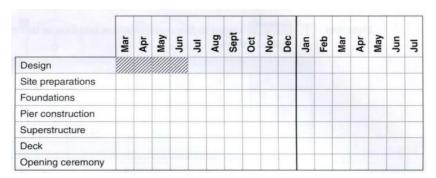
Project at small size

# Vocabulary

1 Have you seen the first draft of the <b>project plan</b> ? 2 The project manager clarified the <b>scope</b> of the project at the meeting. 3 The new <b>WBS</b> software is saving us a lot of time. 4 Rashid will be in charge of co-ordinating <b>resources</b> for the project. 5 The accountants are not happy with the <b>budget</b> . 6 The room for the <b>kick-off meeting</b> has been changed. It' now in Room 2E. 7 The WBS splits the work into smaller <b>elements</b> . 9 People, materials and other asset available for the project 8 Three firms <b>bid</b> for the contract on the new buildings. 9 Please check the <b>invoice</b> No10345 for me. 10 The chairman has summoned an <b>impromptu</b> meeting. 11 There is a <b>strike</b> on this company 12 The value of this company's <b>asset</b> is about \$16 billion. 13 The <b>contract</b> was fixed to a contractor from New York 16 Document summarising all aspects of the project Components 17 Components 18 Without planning 19 Without planning 10 Work breakdown 10 The work that needs to be done 11 The work that needs to be done 12 Components 13 The contract manager (a) Without planning 14 Document summarising all aspects of the project 15 Components 16 Document summarising all aspects of the project 16 Document summarising all aspects of the project 17 The was accountant summarising all aspects of the project 18 Document summarising all aspects of the project			_	1
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3 The new WBS software is saving us a lot of time.  4 Rashid will be in charge of co-ordinating resources for the project.  5 The accountants are not happy with the budget.  6 The room for the kick-off meeting has been changed. It' now in Room 2E.  7 The WBS splits the work into smaller elements.  9 People, materials and other asset available for the project  8 Three firms bid for the contract on the new buildings.  9 Please check the invoice No10345 for me.  10 The chairman has summoned an impromptu meeting.  11 There is a strike on this company  12 The value of this company's asset is about \$16 billion.  13 Without planning	2	The project manager clarified the <b>scope</b> of the project at	b)	Document summarising all aspects of the
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9 Please check the <b>invoice</b> No10345 for me.  10 The chairman has summoned an <b>impromptu</b> meeting.  11 There is a <b>strike</b> on this company  12 The value of this company's <b>asset</b> is about \$16 billion.  13 Cost breakdown  14 Cost breakdown  15 Differ to pay a particular price  16 List of goods have been supplied  17 First meeting				available for the project
10 The chairman has summoned an <b>impromptu</b> meeting.  11 There is a <b>strike</b> on this company  12 The value of this company's <b>asset</b> is about \$16 billion.  13 First meeting	8	Three firms <b>bid</b> for the contract on the new buildings.	h)	Work Breakdown Structure
11 There is a <b>strike</b> on this company k) List of goods have been supplied 12 The value of this company's <b>asset</b> is about \$16 billion. I) First meeting	9	Please check the <b>invoice</b> No10345 for me.	i)	Cost breakdown
12 The value of this company's <b>asset</b> is about \$16 billion. I) First meeting	10	The chairman has summoned an <b>impromptu</b> meeting.	j)	Offer to pay a particular price
	11	There is a <b>strike</b> on this company	k)	List of goods have been supplied
13 The <b>contract</b> was fixed to a contractor from New York m) Not working	12	The value of this company's <b>asset</b> is about \$16 billion.	l)	First meeting
	13	The <b>contract</b> was fixed to a contractor from New York	m)	Not working

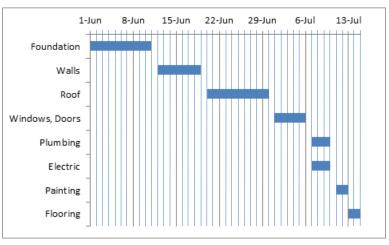
### **Gant Chart**

#### Read the text and complete this schedule

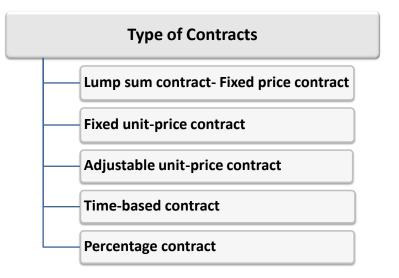


### **Gant Chart**

#### Describe this Gant chart:



### **Contracts**



# Meetings

Read the text and answer these questions:

- 1. What types of meeting is it?
- 2. What is the problem?
- 3. What are the reasons she give for the problem?
- 4. Who has she spoken to about the problem?
- 5. How is she planning to solve the problem?

# Listening

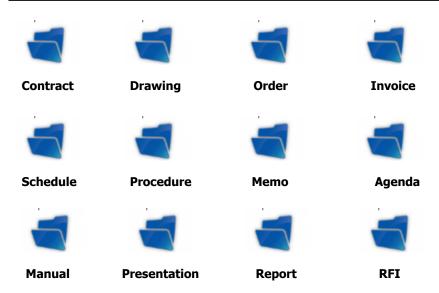
Listen and complete the text:

# Unit 7: Documentation

- Types of document
- Document control procedure



# Types of Document



# Types of Document

1	Procedure	a)	A list of the subjects to be discussed at a meeting
2	Contract	b)	A book that gives instructions about how to do something
3	Report	c)	An official agreement between two or more people, stating what each will do
4	Agenda	d)	A way of doing something, especially the correct or usual way
5	Memo	e)	A short official note to another person in the same company or organization
6	Manual	f)	A written or spoken description of a situation or event, giving people the information they need

# Types of Document

Practice a conversation about some documents *Example:* 

A: What is it?

B: It's a contract

A: What will we use it for?

B: It's an official agreement between client and contractor, stating what each will do

### Document control

Listen and complete this conversation about document control in a company:

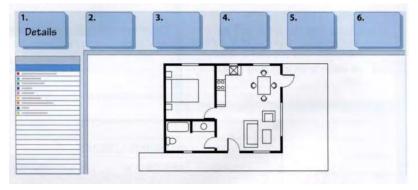
### Document control

Complete this document control procedure with the words in the box:

amended archived bo	ooks out figures track version
When a document comes in, we first make a handwritten note in the (1) If necessary, we give it a serial (2)  We then (3) it in, so that we have a permanent electronic record. As you can see, the serial number ends with a slash and then another number, always three (4)  So, 001 is the first (5) of the document. If the document is (6)	or updated in any way, it receives a new version number and so on. We also use the log to (7) the movement of the document. If someone (8) the document, the date and time are recorded here and when it comes back in, the date and time are recorded again. At the end of the project, the document is either destroyed or (9), depending on its importance.

### Document control

Listen to a conversation about a document management system. Label the buttons on the screenshot.



Confidentiality level - Document output - Originator Status - Document history

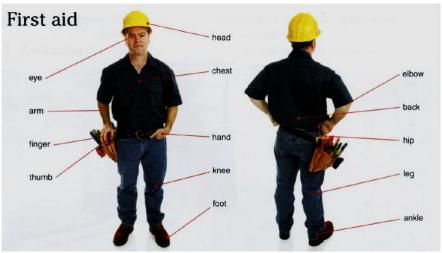
# Unit 8: Health and safety

- Injuries and accidents in construction site
- Protective equipments and warning signs



6

# Injuries



# First aid kit



71

# First aid kit

1	Bandage	a)	A long thin piece of plastic or cloth
2	Plaster	b)	A special piece of material used to cover and protect a wound
3	Tape	c)	A soft mass of cotton use for cleaning and protecting wounds
4	Antiseptic	d)	A piece of clothing that you wear on your hand
5	Cotton wool	e)	A narrow piece of cloth that you tie around a part of the body that has been injured
6	Dressing	f)	A piece of thin material that is stuck on to the skin to cover a small wound
7	Glove	g)	A medicine that you put onto a wound to stop it from becoming infected

### First aid kit

Work in pairs. Tell your partner about injuries accidents in construction site and explain how it happened. Your partner explains what to do using the phrases in the box.

call an ambulance get the first aid kit go to hospital see the doctor take an X-ray

#### Example:

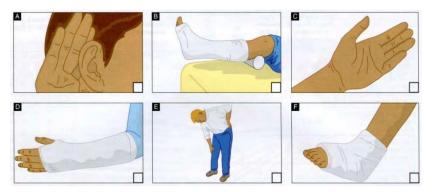
A: I cut my finger on some broken glass.

B: You need to get the first aid kit. First, clean the cut ...

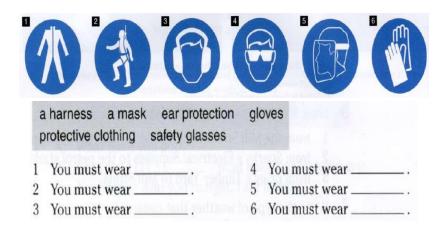
73

### **Accidents**

Listen to 6 conversations about accidents. Match these illustrations with the conversations and complete them.



# Protective equipments



# Warning signs



# Warning signs

• Use clues 1-9 t o fill in the squares. What health and safety advice do you read in the column?

Cl	ues:	
1	overhead	
2	surface	
3	falling	
4	suspended	
5	hazard	
6	stand	
7	lift truck	
8	dog	
9	safety	

# Site safety

• Look at this illustration. Circle the health and safety problems you see.



