# Đại học Duy Tân

Khoa : Xây dựng

Giảng viên : Nguyễn Thị Bích Thủy

# <u>TẬP BÀI GIẢNG</u>

Môn học : ANH	I VĂN CHUY	YÊN NGÀNH XÂY DỤ	NG	Mã môn học: ENG- 330
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# PHÂN BỐ GIỜ GIẢNG DẠY : 30 giờ (02TC)

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#### **Unit 1: TEAMWORK**

- \* Content:
  - 1.1. Vocabulary
  - 1.2. Speaking
  - 1.3. Reading
  - 1.4. Listenning
- \* Teaching methods:
  - Lecture, presentation with PP
  - Q&A, discussion
- \* Documents:
  - [1] Nguyễn Thị Bích Thủy; English for Construction; Đại học Duy Tân; 2016.

## **Unit 2: DESIGN**

- \* Content:
  - 2.1. Vocabulary
  - 2.2. Speaking
  - 2.3. Reading
  - 2.4. Listenning
- \* Teaching methods:
  - Lecture, presentation with PP
  - Q&A, discussion
- \* Documents:
  - [1] Nguyễn Thị Bích Thủy; English for Construction; Đại học Duy Tân; 2016.

## **Unit 3: EQUIPMENT**

- \* Content:
  - 3.1. Vocabulary
  - 3.2. Speaking
  - 3.3. Reading
  - 3.4. Listenning
- \* Teaching methods:
  - Lecture, presentation with PP
  - Q&A, discussion
- \* Documents:
  - [1] Nguyễn Thị Bích Thủy; English for Construction; Đại học Duy Tân; 2016.

## **Unit 4: MATERIALS**

- \* Content:
  - 4.1. Vocabulary
  - 4.2. Speaking
  - 4.3. Reading
  - 4.4. Listenning
- \* Teaching methods:
  - Lecture, presentation with PP
  - Q&A, discussion
- \* Documents:
  - [1] Nguyễn Thị Bích Thủy; English for Construction; Đại học Duy Tân; 2016.

#### **Unit 5 PROCESSES**

- \* Content:
  - 5.1. Vocabulary
  - 5.2. Speaking
  - 5.3. Reading
  - 5.4. Listenning
- \* Teaching methods:
  - Lecture, presentation with PP
  - Q&A, discussion
- \* Documents:
  - [1] Nguyễn Thị Bích Thủy; English for Construction; Đại học Duy Tân; 2016.

#### **Unit 6: PROJECTS**

- \* Content:
  - 6.1. Vocabulary
  - 6.2. Speaking
  - 6.3. Reading
  - 6.4. Listenning
- \* Teaching methods:
  - Lecture, presentation with PP
  - Q&A, discussion
- \* Documents:
  - [1] Nguyễn Thị Bích Thủy; English for Construction; Đại học Duy Tân; 2016.

## **Unit 7: DOCUMENTATION**

- \* Content:
  - 7.1. Vocabulary

7.2. Speaking
7.3. Reading
7.4. Listenning
* <u>Teaching methods:</u>
- Lecture, presentation with PP
- Q&A, discussion
* <u>Documents</u> :
[1] Nguyễn Thị Bích Thủy; English for Construction; Đại học Duy Tân; 2016.
<b>Unit 8: HEALTH AND SAFETY</b>
* Content:
8.1. Vocabulary
8.2. Speaking
8.3. Reading
8.4. Listenning
* Teaching methods:
- Lecture, presentation with PP
- Q&A, discussion
* <u>Documents</u> :
[1] Nguyễn Thị Bích Thủy; English for Construction; Đại học Duy Tân; 2016.
Biên soạn
Xét duyệt của Trưởng bộ môn
$D\grave{a}\;n\check{\check{a}}ng$ , ngày tháng năm
Kết quả kiểm tra tập bài giảng

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$D\hat{a}$ $n\tilde{a}$ ng, ngày tháng năm	
Phòng Thanh Tra	

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# UNIT 1 TEAMWORK

## **Objectives:**

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

#### 1.1. VOCABULARY

Using words in the box to complete these sentences and match those descriptions with the people in the picture.

2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Site manager	Security guard	Driver	Reporters	Electrician	Painter
---	--------------	----------------	--------	-----------	-------------	---------



- 1. I'm \_\_\_\_\_\_. I work for a concrete supplier. We deliver concrete to construction sites all over the country.
- 2. I'm \_\_\_\_\_. This is my apprentice.
- 3. I'm \_\_\_\_\_. Today I'm painting a steel staircase.
- 4. I'm \_\_\_\_\_. I control access to the site. I'm responsible to the site manager.
- 5. I'm \_\_\_\_\_. My company is responsible for the whole project.
- 6. We're \_\_\_\_\_. We're visiting the site to ask some questions.

☐ List some jobs in construction industry and complete this table

	Tradesmen		Trades
1.	Site manager	a.	repair pipes, baths, toilets etc
2.	Plumber	b.	design buildings
3.	Welder	c.	make and repair wooden objects
4.	Bricklayer	d.	connect or repair electrical wires or equipment
5.	Glazier	e.	fit glass into window frames
6.	Security guard	f.	paint houses or other buildings
7.	Architect	g.	weld metal in a factory
8.	Carpenter	h.	Build walls, buildings, etc with bricks
9.	Electrician	i.	Be responsible for the whole project
10.	Painter	j.	Control access to the site

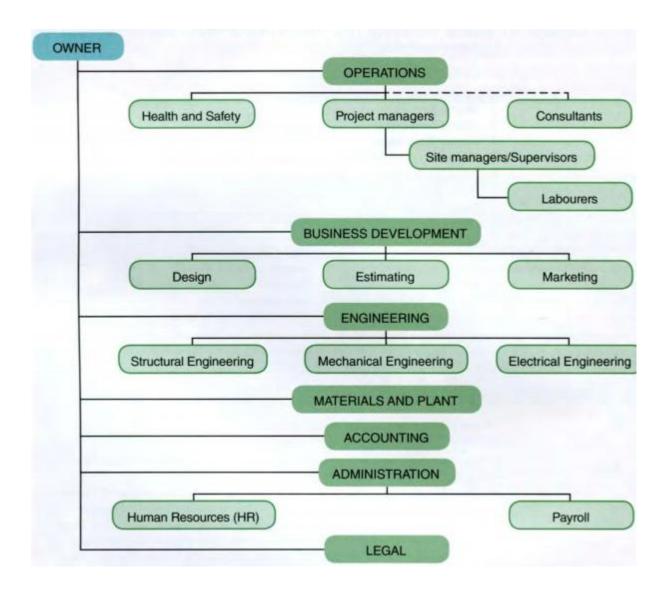
## 1.2. SPEAKING

© Work	in pairs. Explain wh	hat your jobs is and w	what you do. Example like this
I'm a	I work for	My company	I'm responsible for

## 1.3. READING

Look at this organization chart of a construction company and complete the sentences with the word in the box

departments divided external has look part report section top



1.	Our company has a simple structure. At the is the 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,

7. There are different departments which \_\_\_\_\_\_ after materials and plant, accounting, administration and legal.

6. Engineering also \_\_\_\_\_\_ three sections: Structural, Mechanical and

Estimating and Marketing.

Electrical.

	8.	Sometimes we have consultants to help with special jobs. They
		are not of the company.
1.4	4. L	ISTENING
	1	Two reporters are visiting Martin Karp from Karp Construction. Listen and
co	mpl	ete the conversation below
	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
	rel	ease a couple of weeks ago.
	S:	Yes, we have a copy of that, thank you. We're interested in finding out more
	inf	ormation about the people working here. How many(3) do you
	ha	ve 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
	co	ming in and out all the time.
	S:	OK.
	M	But, to answer your question, I'd say we usually have about 100 people on site
	Ar	d 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 or
	scl	nedule 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
	oth	ner(9) and(10).
	S:	Could you tell us something about?
	M	Excuse me, I've just seen Mr Lang. He's walking through the gate. He
	rep	presents the(11), and I have a meeting with him and Anna Black in
	a f	ew minutes' time
	S:	Anna Black?
	M	Anna works for the(12), DKI Cement. They're supplying all the
	cei	ment for the project. Just a moment, please. My assistant, Robert Lane, wil
	an	swer any further questions you have.

S	and	A:	Thank	you.

① Listen a the heads of the seven department	s talking	about	their	roles.	Write	the
names of their departments. Use the organisation i	n 1.3 to h	nelp yo	ou.			

1.	 _
2.	
4.	
7.	

# UNIT 2 DESIGN

# **Objectives:**

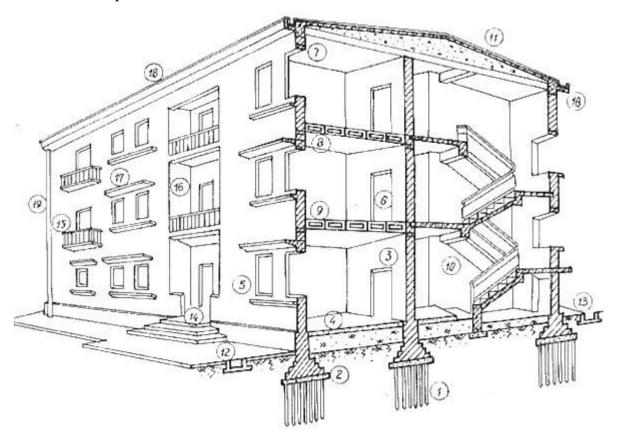
- Describe technical drawings
- Estimate

# 2.1. VOCABULARY

☐ Complete this table about drawings

	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.	Orthographic	d.	The view from above at one level of a structure
	Projection		
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

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



Floor – pavement – loggia – pile – gutter – down pipe – foundation – steps – wall – window – balcony- drainage ditch – door – lintel – drip mould – roof – wall strut - stairs

# ☐ Complete this table about some shapes

1		a triangle	a(n) <sup>2</sup> truss
3	I	an I-shape	a(n) <sup>4</sup> girder
5	0	a circle	a circular rod
6		a square	a(n) <sup>7</sup> beam
8		a cylinder	a cylindrical can
9	0	a(n) 10	a spherical damper
11A		a rectangle	a(n) 12 room

## 2.2. SPEAKING

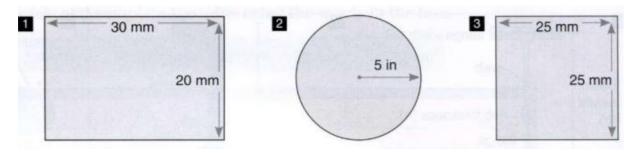
© Note how we say dimensions and calculations

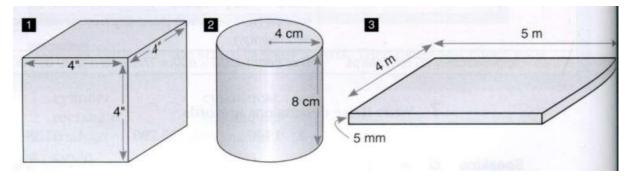
WRITING	SAYING	
2.000 m	two thousand metres	
0,03 cm	zero (or nought) point oh three centimetres	
1,34 m	one <u>point</u> three four metres	
3m x 4 m	three meters by four metres	
25 m2	twenty-five square metres	
600 m <sup>3</sup>	Six hundred cubic metres	
200 ± 1 mm	two hundreds millimetres <u>plus or minus</u> one millimetre	
1:100	one <u>to</u> one hundred	
20 x 30 = 600	Twenty multiple by (times) thirty is/equals 600	
12/5	Twelve <u>divided by</u> five	
$\pi r^2$	Pi r squared	
$2\pi r$	Two pi r	
$\sqrt{64} = 8$	The square root of sixty four is eight	

© Say these dimensions and calculations:

1	3.065 mm	5 2,500 sq ft
2	3'4"	6 4,632 m <sup>2</sup>
3	34 m x 28 m	7 0.045 cm
4	26' ± ½ "	
1	$5 \times 6 = 30$	4  5 + 3 - 1 = 7
2	100 / 5 = 20	$5  7^2 = 7 \times 7 = 49$
3	√ 36 = 6	

© Calculate the areas and volumns





#### 2.3. READING

Read this text and answer some questions

A building is made up of various types of structural elements such as beams, girders, trusses, columns, walls, frames, roofs, etc. They can be used independently or incombination to establish a structural system.

Columns and beams may be constructed of wood, steel or reinforced concrete. Cast iron was widely used at once time for columns and for short beams such as lintels, but steel and reinforced concrete has largely replaced it. Nowadays, wrought iron has been entirely replaced by steel. Reinforced concrete beams and columns may be poured in a place to form a rigid frame. In industrial buildings, they are usually prefabricated in a factory or in a casting yard.

Truss is a member consisting of a group of triangles, arranged in a single plane, long span trusses are usually constructed of steel, others are constructed of wood or reinforced concrete. Most trusses are pre- cast units.

Rigid frames are constructed of wood, reinforced concrete and steel.

Floors are usually constructed of wood, reinfored concrete. Concrete beams, girders, and floors slabs may be poured in place, occasionally, they are precast units.

The walls of a dwelling house are usually constructed of bricks, or stone, In multistorey buildings, they are constructed of wall panels. A building may be classified on the basic of the function of the walls. If the walls carry the loads, in addition to keeping out the weather, the building is classified as wall bearing construction. But if the loads including the weight of the wall are carried by the structural frame, the building is classified as skeleton structure. In this case, the walls are to keep our the weather, so they are called curtain walls.

The roof of a dwelling house is usually a gable roof, consisting of king- post trusses, purpling, rafters which are covered with tiles. In most buildings, the roof is a reinforced concrete flat roof, which is poured in place. Precast roof slabs may be used particularly in industrial buildings.

# Questions:

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

## 2.4. LISTENING

① 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
① Listen a conversation and complete it.
A: We need to make some(1) to the original plans.
B: What? Why?
A: The new(2). He wants us to make some(3).
B: OK. So tell me what changes?
A: Well, first he wants to build a floor- to- ceiling(4) here, on the right.
That means strengthening the floor.
B: OK. How about if I do some(5) and get back to you on that?
A: Yes. I'm OK with that. Thank you. Now, the lighting
B: What about the lighting?
A: He wants more(6) lighting. Do you have any thoughts?
B: I know, why don't we remove these(7) walls?
A: Yes, good idea. He also wants more(8), a more open- plan design, so
that fits in nicely. What do you think?
B: Well, they are only(9) walls. But we'll need to run the workstation
cabling through the floor. Maybe we need to raise the floor?
A: Yes, that's a good point. I'll speak to him again about this. Next thing he wants
better(10). He thinks it's too noisy. Can you speak to Ahmed about
that?

B: Sure.
A: OK, now the joinery.
B: What about the joinery?
A: Well, the doors and windows stay the same, but he wants us to use FSC timber.
It's more(11) friendly.
B: OK. How about if I speak to the joiners and see what they(12)?
A: OK. And we need to change the paint.
B: What about the paint?
A: He wants us to use natural paints. No VOCs.
B: Yes, that makes sense. But isn't that more(13)?
A: Yes, he knows. He's OK with that.
B: OK. I'll organise that.
A: And finally the air conditioning. He wants us to think about different systems,
systems that are more energy(14) if possible.
B: OK. I'll speak to the HVAC people.
A: There's no need. I'm seeing them later today. I'll speak to them.
B: Thank you.

# UNIT 3 EQUIPMENT

# **Objectives:**

- Talk about equipment
- Explain faults
- Deal with repairs

# 3.1. VOCABULARY

☐ Look at this construction site equipment and match with words in the box















Mobile crane	Scaffolding	Pile driver	Tower crane	Concrete pump
Backhoe	Bulldozer	Jackhammer	Wheelbarrow	Dumptruck
Portable mixer	Chute	Hand mixer	Hopper	Concrete
				transport truck

## 3.2. SPEAKING

$\odot$	Work in pairs to talk about descript	tion, usage of some eq	uipments like that:	
	What does a bulldozer do? It can	/ It's for	/ It's used for	
	What do you use jackhammer for?	I use it for	•	

#### 3.3. READING

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

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.

- 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.

## 3.4. LISTENING

Listen and complete the descriptions of construction site equipment. Put one word
in each gap and name those machines.
1. This machine is driving piles into the soil.
2. This machine has a bucket which is used scoop soil out of the
ground.
3. This machine lift heavy loads high in the air.
4. You this machine to move large amounts of earth/
5. This machine electricity from petrol.
6. This machine used for transporting concrete to high parts of a
construction site.
7. This machine is transport people to high parts of a construction
site.

# UNIT 4 MATERIALS

# **Objectives:**

- Order materials
- Describe properties of materials
- Discuss problems and solutions involving materials

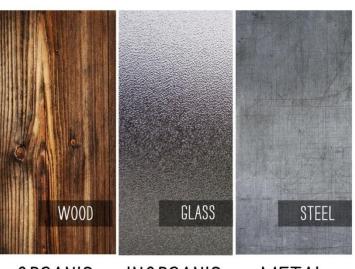
#### 4.1. VOCABULARY

☐ Match the materials to their properties

Materials	Properties
1. Rubber	a) Soft, light, plastic
2. Sand	b) Hard, inorganic
3. Reinforced concrete	c) Brittle, artificial
4. Ceramic tiles	d) Hard, organic
5. Gravel	e) Strong, metal
6. Polystyrene	f) Elastic
7. Timber	g) Strong, natural
8. Steel / Rebar	h) Inorganic
9. Glass	i) Rough

#### 4.2. SPEAKING

© Work in groups. Talk about properties, usage of some popular materials in construction: wood, glass, steel, rock, brick,...







NATURAL ARTIFICIAL

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

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

## 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.

#### 4.3. READING

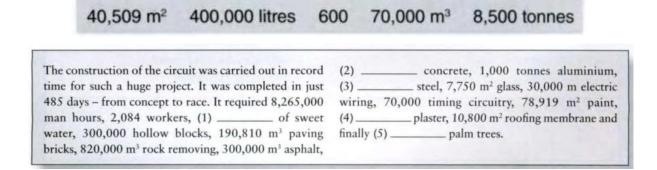
Read this text and answer these questions:

Concrete is a mixture of small, strong stones, cement and water, which has been densely compacted and left to mature. It is very strong in compression and is durable. As it cracks when stretches, it is designed to contain bars of embedded steel. This reinforced concrete is the most versatile and cheapest structural material available. It is even more effective if the steel reinforcement in the concrete is tightened up or prestressed.

The concrete frame is made by pouring the wet mixture into mould and leaving it to harden. If the process is carried out in a factory, the concrete is called precast. If the moulds are used on the site, it is called insitu concrete. The joints between the pieces of concrete can be very neatly made, and an infinite variety of moulded shapes become available.

- 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?

Complete this text about Bahrain International Circuit with the figures in the box

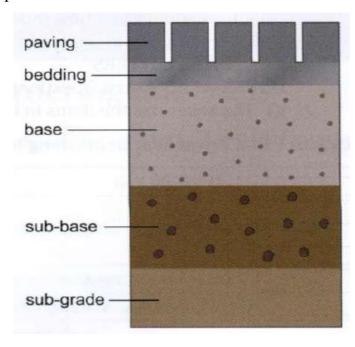


#### 4.4. LISTENING

① Listen a conversation and correct 4 mistakes



① Listen and complete this text



There are basically two types of driveway. You can have a firm surface, like stones or \_\_\_\_\_\_ or asphalt, and you can have a loose surface of aggregate, like gravel or crushed stone. Each type needs layers of different \_\_\_\_\_ underneath the surface layer, and the materials you use for these layers have different \_\_\_\_\_. So, for example, if you want paving stones, you need a bedding layer underneath, which is

normally coarse sand or grit. If the sand is too fine, the bedding will be too
soft.
Under that you may have a base layer, and underneath that you may have another
layer, called a This sub-base needs to be strong enough to take the
weight of vehicles, like family cars. If this sub-base is too, the driveway
will subside, or sink. These two layers will be aggregates of different sizes. The larger
aggregates are at the bottom. The sub-base sits on the, in other words on
the existing ground. On the outside you have edgings.
The edgings are often stone or concrete. Some edgings, like in children's
playgrounds, can be elastic. On driveways, the edgings need to be enough to
hold the paving together. And they need to be tough. Brittle edgings are no good - they
break or chip easily. Edgings also need to look attractive. So it's important to think
about things like and finish, otherwise the finished driveway may look
unattractive. You also need to take into account. Will the texture be rough
or smooth? And then you could also

# UNIT 5 PROCESSES

## **Objectives:**

- Sequence events
- Plan a process
- Explain changes

#### **5.1. VOCABULARY**

☐ Match the words with their meanings

1. This is a <b>routine</b> job, we do it everyday	a) Outcome
2. What is the <b>procedure</b> for setting out?	b) Steps
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 operating
5. It's important to be <b>systematic</b>	e) Organised

☐ Complete this text with the words in the box.

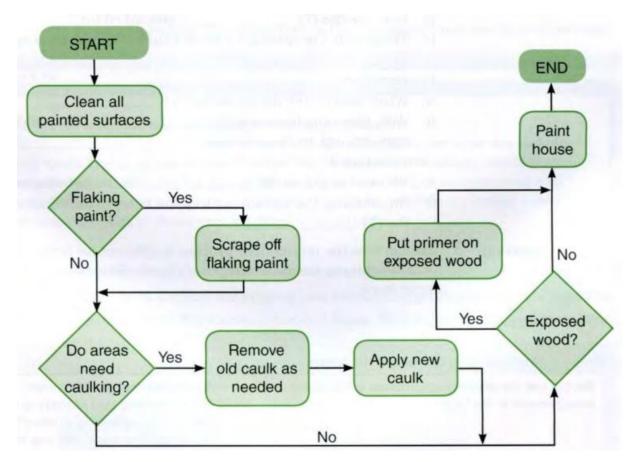
Finally	First	result	routine	stages	Third

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.

#### 5.2. SPEAKING

© Work in pairs, use sequencing markers to explain the process of painting a house

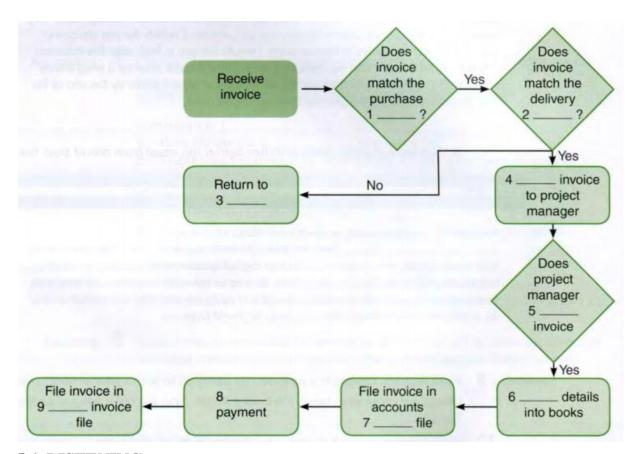
First, Second, Third,  First of all, (Note that we do <b>not</b> say <del>Second of all,)</del> Next  After that, /After + -ing  Then  Finally,
That's all I want to say about  Moving on to the next step  Before that, /Before + -ing



#### 5.3. READING

Read this text and complete the flowchart.

This is what we used to do. Everyday we got hundreds of invoices from different suppliers. These went straight to the accounts department. Let's imagine that the invoice was for some materials, say, a load of sand. The first thing they did was match the invoice with the purchase order (to check that we had ordered the sand) and the delivery note (to check that the sand had been received). If the documents did not match, the invoice was sent back to the supplier. If they did match, the accounts department sent the invoice, together with the purchase order and the delivery note, to the project manager for approval. Once the invoice was approved, the accounts department entered the details into the books and filled the invoices in the accounts payable file. The payment was then dealt with, normally by bank transfer, within 30 days of receipt of the invoice. The invoices then went into the paid invoices file. These files were kept for ten years.



## **5.4. LISTENING**

① Listen and complete this text
A: HR. Susanne Kohl speaking.
B: Hi, Susanne. It's Peter(1)?
A:(2),(3). Busy as ever.
B: You left me a message to call you
A: Ah, yes. Have you heard the news about Sally?
B: What news?
A:(4)'s pregnant.
B: So?
A: So you'll need a new structural(5) for your team.
B: Ah, yes, of course. When is she planning to leave?
A: She said mid-July.
B: OK. Is she coming back(6) she has the baby?
A: She'll decide later on. But she may take a couple of years off.
B: We'd better think(7) finding a replacement then. We can't cover for
that long.

A: Yes. And even if she does come back, we(8) extra people in the team,
anyway. There's a lot to do.
B: OK, so what's the procedure?
A: Well, first of all you need to identify the key skills you(9) her
replacement to have. And then we need to(1), or probably just
(10), the job description.
B: OK, that's easy enough.
A: Then we need to(11), first internally, then externally.
B: OK.
A: Then it's a matter of looking at(12)'s CVs, producing a shortlist and
carrying out the(13).
B: That's it?
A: Well, we'll also need to check references before we make our final decision.
And then we inform the successful applicant and organise the induction.
B: OK. Look. Why don't we meet next(14) to talk about the key skills
you mentioned?
A: Just a second. Let me check my diary. Yes, OK, that sounds good.
(15) o'clock?
B:(16). See you then.
① Listen and write 4 things the accounts department enter onto the system when they
receive an invoice.

# UNIT 6 PROJECTS

# **Objectives:**

- Manage tasks
- Discuss types of contract
- Talk about the scope of a project

# 6.1. VOCABULARY

☐ Match the words with their meanings

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

#### 6.2. SPEAKING

© Use the words in the box to talk about type of meetings you attend.

length location participants planned or impromptu topic(s)

This is a Gant chart of a project. Describe it.

	111	N	IAR	CH	Mari	AP	RIL	 13		MAY	1			JU	NE	
Preparation of the ground							H	0								
Special foundations		100		100		-		J. H								
Adjustments of surface																
Infrastructure						776										
Roofs								2-3	400			In las	100			
Bulk heading							YES.									
Interiors						5										
Treatment		1														
Grounds			T sold													
Ceilings		0.23														
Plumbing																
Electricity																

#### 6.3. READING

- Read the text about contracts and answer these questions
- 1 What is the difference between the two models?
- 2 What are the advantages and disadvantages of the DB model?

Traditionally, most companies use a design bid build (DBB) model. The client finds a company to design their project and then looks for a construction company (or companies) to build it for them. Different companies bid for the work. And finally, the contractor with the most attractive offer is selected and becomes responsible for the project. In the design build (DB) model, the client only has one point of contact. This may be an architect, for example, or a general contractor. There is no bidding. This means that the DB system is faster and cheaper, but of course the client has to hope that quality is not compromised. It is easy for a contractor to cut corners.

# Read the text and complete this schedule

I'd like to explain the project schedule for the highway 473 beam bridge. As you can see from the slide, the design phase will take from March to June. At the end of May we'll begin the site preoarations, which will take four months. At the beginning of August we'll start work on the foundations. These will take until the beginning of November. In November we'll start work on the piers, which will take around three months. In the middle of February we'll start work on the superstructure, and in June we'll lay the deck. The opening ceremony will be in July next year.

	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Design	<b>////</b>																
Site preparations																	
Foundations																	
Pier construction																	
Superstructure																	
Deck																	
Opening ceremony																	

## Read the text below and answer these questions

Thank you all for coming at such short notice. What I want to talk about is communication. Things are not going well. I know that we're all very busy, and that we're all members of other project teams. I also understand that we all come from different companies and have different ways of working. But we need to improve our communication, otherwise we are never going to meet all our deadlines and finish this project on time. I've discussed the communication problem with the directors, and we feel there are a number of things we can do to solve the problem.

First of all, we need to have more meetings - face-to-face or at least online. Secondly, we all use the intranet already, so we have decided to set up a new portal, which will include project updates, documentation, Gantt charts - that is to say project schedules - and tools and templates. There will also be information about team members, specialists, previous experience and so on. We basically need to get to know each other better. And finally the HR department has contacted a company who will organise team-building activities for us, which I will tell you about later. Again, this will help us work better as a team.

- 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?

# 6.4. LISTENING

① Listen to a consultant explaining 3 types of contract to a client. Circle 3 types you hear.

cost plus	fixed percentage	lump sum	renovation	turnkey
① Listen and c	complete this text about	kick- off meetii	ng	
Welcome to	o this kick-off meeting.	I just want to	clarify some po	ints about how I
see this	(1) running.			
First of all,	I want to stress the	(2)	of the project p	lan, which is this
document, and	which covers all	(3) of th	e project. Amor	ng other things, it
outlines the	(4), in other v	words the work	that needs to be	done in order for
the project to b	e completed	_(5). All of us	need to be very	familiar with this
document. In	fact, by the end of nex	t week, I expe	ct us all to kno	w this document
better than our	own(6).			
The second	document is the WBS	, or Work Brea	kdown Structur	e. This splits the
work into smal	ller(7) which	are easier to m	anage in terms of	of(8),
(9)	), and so on. Each of yo	ou will be respo	onsible for your	own elements in
the WBS, but i	t's important that you se	e the big pictur	e, too.	

# UNIT 7 DOCUMENTATION

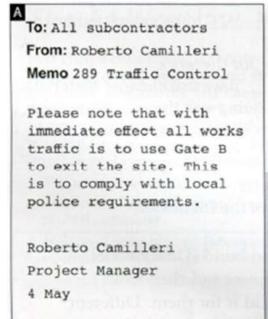
## **Objectives:**

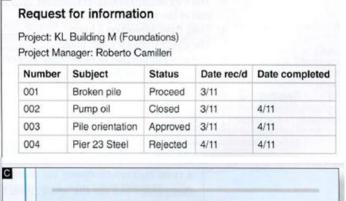
- Explain document control procedures
- Give specific information about documentation
- Discuss project documentation

#### 7.1. VOCABULARY

☐ Match the words with their meanings and some pictures

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





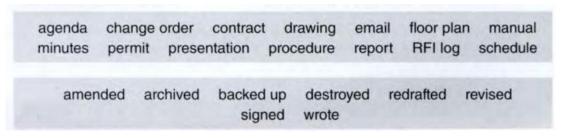
Emergency change orders require immediate action to avoid a serious work stoppage, delay and/or extra costs. Verbal approval may be given by the Project Manager, and is to be followed up in writing within one week (Form 34B). The approval is to include details of the emergency situation and, if possible, an estimate of the costs involved.

## ☐ Match 1-7 with a-g to make sentences

1	We have to send the amendments	a)	enter.
2	You have to press	b)	has a serial number.
3	We have to log and	c)	first thing tomorrow.
4	We have to make sure that each document	d)	out of the document centre.
5	I have to book every document in and	e)	track evrery document.
6	Key documents have to be	f)	written in capital letters.
7	The name has to be	g)	locked in the safe at night.

#### 7.2. SPEAKING

© Work in pairs. Follow the example conversation below.



- A: I need a copy of the contract
- B: Which contract?
- A: The contract which we signed last week.
- B: We signed two contracts last week.
- A: I need the one which has to do with the residential housing project in Takara Road.
- B: OK

#### 7.3. READING

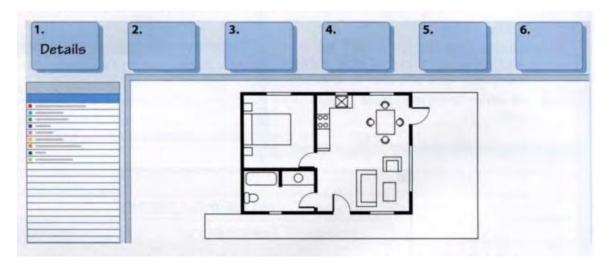
Complete this document control procedure with the words in the box

	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

# 7.4. LISTENING

① Listen and complete this conversation						
A:	This room is, in a way, the(1) of the company. Everything comes					
	into or goes out from here.					
B:	What do you mean?					
A:	Well, our company deals with hundreds of documents relating to all the					
	different(2), you know, documents such as correspondence, job					
	site memos, change orders, reports, drawings, RFI logs, procedures and so on.					
	So document(3) is very importance. All documents come through					
	this room. These people- the document controllers- are responsible for looking					
	after the documents so that they are in the right place at the right time or can					
	be accessed whenever they are needed. Any(5) cost money.					
B:	I see. Erm you said RFI logs?					
A:	Oh, yes. RFI stands for "(5)". It's a document that asks for					
	information about specific details in a project. And an RFI log is a list of the					
	RFIs.					
B:	Ah, yes, of course. But isn't it all done on computer?					
A:	Well, yes and no. Yes, we do use computers, of course. But no, because we					
	still get a lot of documentation which isn't in(6) format, so that					
	has to be processed manually. Of course we scan a lot of documentation, but					
	that takes time- logging it in, giving it a(7), tracking it so that we					
	know where it is, making sure it gets booked out to the right person, making					
	(8) or backups, that sort of thing.					
B:	I see.					
A:	But I think we'll have to change to a better(9) soon. It's not only					
	processing this volumn of documents that takes time, but also managing all the					
	amendments. There are always draft versions of documents which need to be					
	replaced or updated. If we had a fully integrated system. I'm sure things would					
	be faster and more efficient.					
В:	What's in that room over there?					
A:	Those are the archives. We have to keep certain documents for up to three					
	years, according to the law. We also keep(10) documents in					
	there, in a safe.					

① Listen to a conversation about a document management system. Label the buttons on the screenshot.





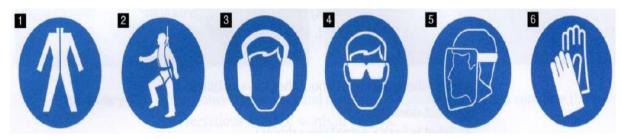
# UNIT 8 HEALTH AND SAFETY

# **Objectives:**

- Identify warning signs
- Explain injuries

## 8.1. VOCABULARY

☐ Look at these signs and complete their meanings with the words in the box



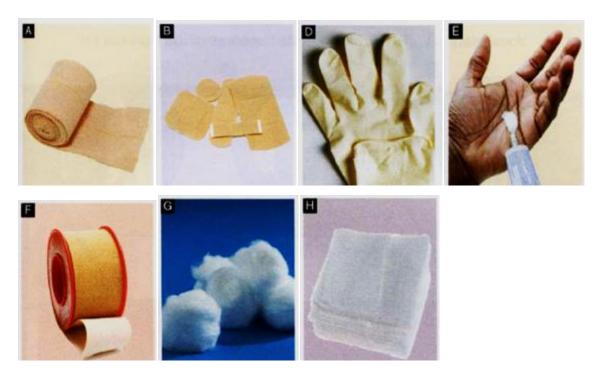
a harness a mask ear protection gloves protective clothing safety glasses

1.	You must	wear	 
Ι.	You must	wear	 

- 2. You must wear \_\_\_\_\_\_.
- 3. You must wear \_\_\_\_\_\_.
- 4. You must wear \_\_\_\_\_\_.
- 5. You must wear \_\_\_\_\_\_.
- 6. You must wear \_\_\_\_\_.
- ☐ Match the words with their meanings and pictures

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

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## 8.2. SPEAKING

© Work in pairs. Tell your partner about injuries 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 ...

© Look at this illustration. Circle the health and safety problems you see and talk about those problems.



#### 8.3. READING

Read these sentences. What sign is needed?



- 1. There are men working on the roof today.\_\_\_\_\_
- 2. The new security company uses dogs. \_\_\_\_\_
- 3. There are power cables near the fence. \_\_\_\_\_
- 4. There's a lot of debris on the ground. \_\_\_\_\_
- 5. We're erecting the scaffolding this afternoon.
- 6. We're using the crane today.
- 7. We're moving the timber today. \_\_\_\_\_
- 8. There's oil on the ground. \_\_\_\_\_

#### 8.4. LISTENING

- ① Listen to six conversations about injuries on site and complete them.
- 1. A: Can I help you?
  - B: Hello, doctor. Yes, please. I think I sprained my \_\_\_\_\_(1) yesterday. I tripped on some \_\_\_\_\_(2) on the building site.
  - A: Let's have a look. Yes, it's very swollen. You need an \_\_\_\_\_(3).
- 2. A: What's up?
  - B: It's not me. It's Ahmed. He fell off the \_\_\_\_\_(4). He broke his \_\_\_\_\_(5).
  - A: I'll call an \_\_\_\_\_(6)!
  - B: Yes, hurry!

3.	A:	What's the matter?
	B:	He burnt his(7). He was welding.
	A:	Ouch!
4.	A:	I hurt my(8) because the(9) was too heavy. Can I go and
		see the doctor?
	B:	Of course. Let me know what he says.
5.	A:	That glass is(10). I cut my(11).
	B:	Be carefull! You're dripping blood on me.
	A:	Sorry! Any idea where the first(12) is?
	B:	In the site manager's office.
	A:	Thanks.
6.	A:	What's happened?
	B:	The(13) crushed his hand.
	A:	How?
	B:	It fell off the(14).
1	List	ten to 6 conversations about accidents. Match these illustrations with the
co	nvers	sations and complete them.
A		B C
D	3 11	
1.	A:	A friend of mine had white(1) syndrome from using(2)
		power tools. He lost all feeling in his hands.
	B:	Sounds(3).
2.	A:	I had an accident last year. I tripped over a cable and fell. I put out my
		(4) to stop myself and broke my(5).
	B:	Ouch. I bet that hurt.

3. A:	I saw an accident this morning. One of the labourers dropped a(6)		
	of bricks on his foot. He was only wearing sandals, not(7), which		
	didn't help.		
B:	What? I'll speak to the manager. Everyone needs boots.		
4. A:	(8) injuries are very common. People lift things which are too heavy.		
B:	Straight back, bend the(9)s. That's what I always say.		
5. A:	One of the(10) was hit by a truck. He wasn't wearing his hi-vis vest		
	and the other driver didn't see him. The(11) hit his leg just below		
	his knee and fractured it.		
B:	I bet he wears his vest from now on.		
5. A:	People don't use(12) and then damage their hearing. It's a		
	(13) process, so they're not aware of what's happening.		
B:	Pardon? What did you say?		
	Cod Mr Don		

# TÀI LIỆU THAM KHẢO

- [1] **Evan Frendo**; English for Construction Level 1; ISBN 978-1408269916; Pearson; 2012.
- [2] **Evan Frendo**; English for Construction Level 2; ISBN 978-1408269923; Pearson; 2012.
- [3] **Võ Như Cầu**; *Tiếng Anh trong Xây dựng và Kiến trúc*; NXB Xây dựng; Hà Nội; 2011.
- [4] **James Cumming;** *Tiếng Anh trong Kiến trúc và Xây dựng (bản dịch)* ; NXB Xây dựng; Hà Nội; 2004.