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# Методические рекомендации по выполнению практических работ по дисциплине

# СГ.02 ИНОСТРАННЫЙ ЯЗЫК В ПРОФЕССИОНАЛЬНОЙ ДЕЯТЕЛЬНОСТИ

по специальности 08.02.14 Эксплуатация и обслуживание многоквартирного дома

Методические рекомендации предназначены для студентов 2 и 3 курсов ГАПОУ СКСПО по специальности 08.02.14 Эксплуатация и обслуживание многоквартирного дома для выполнения домашней контрольной работы в межсессионный период и самостоятельной подготовки к лабораторно-экзаменационной сессии. Рекомендации разработаны в соответствии с рабочей программой учебной дисциплины СГ.02 ИНОСТРАННЫЙ ЯЗЫК В ПРОФЕССИОНАЛЬНОЙ ДЕЯТЕЛЬНОСТИ

## ЦЕЛИ И СОДЕРЖАНИЕ ОБУЧЕНИЯ.

Дисциплина «Иностранный ЯЗЫК≫ входит общих ПИКЛ гуманитарных дисциплин федерального государственного образовательного стандарта среднего профессионально го образования и составляет часть профессионально й И общекультурной подготовки студентов.

Основной обучения целью студентов иностранному является языку овладение навыками практического пользования языком, что при заочном обучении предполагает формирование умения самостоятельно читать литературу по специальности

с целью извлечения информации из иноязычных источников.

В процессе обучения решаются воспитательные и общеобразовательные задачи, способствующие повышению образовательного, культурного и профессионального уровня студентов.

В течение всего курса обучения рекомендуется использовать технические средства обучения и компьютерные обучающие программы, а так же различные тексты, упражнения, видеофильмы, учебные, документальные и художественные фильмы.

По завершении курса обучения студент должен иметь следующие умения:

#### Чтение:

- умение читать со словарем тексты страноведческого, общенаучного характера и тематически связанные с профессией.
- умение читать без словаря тексты, лексику по пройденной тематике и ситуациям общения.

#### Письмо:

- умение правильно писать слова и словосочетания, входящие в лексический минимум.
- умение с помощью словаря изложить
   в письменной форме содержание
   текста.

#### Устная речь:

- умение участвовать в несложной беседе на темы повседневной жизни, учебы, работы и знание речевого этикета.
- умение выражать свои мысли в устной форме по темам, относящимся к учебной и профессиональной деятельности студента.
- понимать на слух речь, в том числе фонозаписи, содержащие усвоенный языковой материал.
- иметь представление о культурных традициях и правилах

речевого этикета в странах изучаемого языка.

# 1. SAFETY EQUIPMENT

защитные очки бируши каска аптечка первой помощи захват перчатки очки защитные кожаные перчатки защитная маска сапоги со стальным носком наколенники пылезащитные маски

# Exercise 1. Read and translate the micro text Safety Equipment Workplace Safety Guidelines

Wear a hard hat and steel-toed boots at all times on a construction site. There are NO exceptions.

Always wear safety glasses or goggles when operating saws or similar machinery.

Use a face shield when welding. The sparks can cause burns or blindness. Use earplugs when operating loud machines.

Wear leather gloves or grip gloves when working with heavy or rough items. Wear kneepads when kneeling. Long periods of kneeling cause pain orinjury. Use a dust mask when working with toxic materials.

Keep the site first aid kit fully stocked.

## Exercise 2. Answer the questions

- **a)** What are some different kinds of safety equipment?
- **b**) Why do companies insist that plumbers use safety equipment?
- c) What grammatical phenomena can you analyze in the text?
- **d**) Find in the text the sentences in the Present Simple. Read them and analyze the verbs.
  - e) Read the nouns in plural.

# Exercise 3. Mark the following statements as true (T) or false (F)

- 1 All employees on construction sites wear hard hats.
- 2 Leather gloves should be worn when working with toxic materials.
- 3 Workers must have individual first aid kits.

# Exercise 4. Match the words (1–5) with the definitions (A–E)

1 – safety glasses	A supplies used to give medical assistance to an injured
	person
2 – first aid kit	<b>B</b> protective clothing worn over the hands with special
	surfaces for grasping objects
3 – earplugs	C thick lenses worn over the eyes to protect them from
	flying objects
4 – grip gloves	<b>D</b> devices worn to protect the user from very loud noises
5 – hard hat	E a thick covering designed to protect the user's head from
	falling objects

Exercise 5. Choose where the word	ls best fit the blanks	
1. face shield / steel-toed boots		
A Be sure to wear	_to protect your feet.	
<b>B</b> The welder wore a	to guard against fly	ing sparks.
2. goggles / leather gloves		
A You should really guard your eye	es with	before you use the
electric saw.		
<b>B</b> I always wear a pair of	to protect my han	ids.
3. kneepads / dust masks		
A The men wore	_ during the building	demolition to avoid
breathing in dust.		
<b>B</b> Plumbers often wear	because they l	nave to kneel for long
periods.		
Exercise 6. Fill out the safety incide	nt report.	
Safety Incident Report	_	
Worker name:		
Safety Violation		
Did an injury result?		
Supervisor Name:		
Action Taken:		

# 2. TOOLS

# **Vocabulary:**

tool box		ящик для инструментов
chalk box	III Dividuosio	коробка с мелками
level	the Court of	уровень
tape measur	SIMPLY AND	рулетка
utility knife		канцелярский нож
plumb bob		отвес
Phillips screwdriver		отвертка Филлипс (крестовая)
slotted screwdriver		шлицевая отвертка

wallboard saw		настенная пила
hacksaw		ножовка
plastic pipe saw		пила для пластиковых труб
claw hammer	•	молоток-гвоздодер
ball peen hammer	The same of	шаровой молоток
nut driver	316 1M 516. HS2 30 TH4 N2	гайковерт

Exercise 1. Read and translate the text, find new words: Bob's Hardware

Bob's Hardware has tools for every job. We have BuildCo nut drivers, Phillips screwdrivers, and slotted screwdrivers. We also have sets with all three types!

We carry ball peen and claw hammers of all shapes and sizes. Do you need to make sure something is straight? Our selection of levels and plump bobs will do the trick.

If you're cutting, we have what you need. From utility knives to hacksaws, all cutting tools are half-price. That includes all wallboard saws and plastic pipe saws. But grab a tape measure and chalk box first. Measure twice, cut once! And stay organized with our tool boxes.

#### **Exercise 2. Answer the questions:**

- a. What are common hand tools?
- b. Why should plumbers bring all of their tools to a job?
- c. What grammatical phenomena can you analyze in the text?
- d. Find the Present Simple in the sentences in the text. Read them and analyze the verbs.

#### Exercise 3. Match the words (1–8) with the definitions (A–H):

1. Phillips screwdriver	A a tool that turns screws with one long slot
2. slotted screwdriver	<b>B</b> a tool with a thick head used to shape metal
3. ball peen hammer	C a tool with a socket used to turn nuts and bolts
4. plastic pipe saw	<b>D</b> a tool with a blade used to cut metal
5. wallboard saw	E a tool with a blade used for cutting pipe made of
	plastic
6. wallboard saw	<b>F</b> a tool used to drive or remove nails
7. hacksaw	G a tool used to turn screws with two slots that meet at a
	right angle
8. nut driver	<b>H</b> a tool with a blade used for cutting sections of a wall

# Exercise 4. According to the text you have read in the first task, mark the following statements as true (T) or false (F):

- 1 Some nut drivers and screwdrivers are sold together.
- 2 The store has several types of ball peen hammers.
- 3 Tape measures and chalk boxes are on sale.

# Exercise 5. Fill in the blanks with the correct words and phrases from the word bank

Word bank: tool box, chalk box, level, tape measure, utility knife, plumb bob

1. Use a(n) \_\_\_\_\_\_ to mark lines on the floor.

2. Get a(n) \_\_\_\_\_\_ to see if this picture is hanging straight.

- 3. The shows inches and centimeters.
- 4. Store all tools in a(n) .
- 5. The hung from a string is used to determine a vertical line.
- 6. Cut the rope with this\_\_\_\_\_\_.

#### 3. MEASUREMENTS AND SIZING

Vocabulary:

pound centimeter фунт

inch kilogram сантиметр

conversion дюйм

millimeter килограмм

imperial metric преобразование

Psi kPa миллиметр

императорский

метрика ПсикПа

#### **Exercise 1. Read and translate the micro text:**

#### **Measurements and Sizing**

A plumb is proud to serve clients around the world. We know that not all customers use the same measurements. For our North American clients, we provide imperial measurements. All pipe sizes are listed in inches. Weight measurements appear in pounds.

For clients outside North America, we also provide metric measurements. Pipe sizes are listed in millimeters. Weight measurements appear in kilograms.

Each region has its own page. Just click the link for the measurements you need. To convert measurements between systems, use our conversion calculators. Click «Conversions». You can convert inches to centimeters in an instant.

#### Notes:

- What are the units of PSI?

The standard unit of pressure in this system is **pound per square inch** (PSI):the pressure resulting from a force of one pound applied to an area of one square inch. 1 PSI is approximately equal to 6895 Pa.

- How many PSI is a pound?

It is the pressure resulting from a force of one pound-force applied to an area of one square inch. In SI units, 1 psi is approximately equal to 6895 Pa.

#### Pound per square inch

Unit system Imperial units, US customary units

Unit of Pressure, Stress

Symbol psi or lbf/in<sup>2</sup>

#### - What are the units of kPa?

kPa (Kilopascal) is **a unit of measure in Europe and other areas that use the metric system**. BAR is a unit of measure in Europe and other areas that use the metric system and it is defined as 100 Kilopascals. It is about equal to the atmospheric pressure on Earth at sea level.

- What is 1 kPa equal to in PSI?

0.14504 PSI

#### kilo Pascals To PSI Conversion Table

kPa (kilo Pascal):	PSI (Pounds Per Square Inch):
1 kPa	0.14504 PSI
2 kPa	0.29008 PSI
3 kPa	0.43511 PSI
4 kPa	0.58015 PSI

#### **Exercise 2. Answer the questions:**

- a) What are the two major measurement systems? Where are they used?
- **b)** What are some common measures in two systems?
- c) What grammatical phenomena can you analyze in the text?
- **d**) Find in the text the sentences in the Present Simple. Read them and analyze the verbs.
- e) Say the sentences with the verb «to be». Say its Tense, Person and Number.

# Exercise 3. Mark the following statements as true (T) or false (F):

- **1** − PSI is used in the metric system.
- 2 Kilograms are provided with the imperial product listings.
- 3 A plumb lists two types of pressure measurements for each product.

#### Exercise 4. Match the words (1–6) with the definitions (A–F):

1 – pound	A a metric measure of distance equal to 1/100 of a meter	
	<b>B</b> the act of changing a measurement from one system to	
<b>2</b> – inch	another	
	C an imperial measure of distance	
3 – conversion	<b>D</b> a metric measure of distance equal to 1/1000 of a	
4 – centimeter	meter	

5 – kilogram

E a metric measure of weight

**6** – millimeter

**F** an imperial measure of weight

#### Exercise 5. Choose where the words best fit the blanks

#### 1. imperial / metric

A The\_\_\_\_\_system uses pounds, not kilograms.

**B** An inch is not a(n) measurement.

#### 2. PSI/kPa

A Metric pressure is measured in \_\_\_\_\_.

**B** Imperial pressure is measured in \_\_\_\_\_.

# 4. INSTALLATION OF KITCHEN SINK

## **Vocabulary:**



widthширинаheightвысотаdepthглубинаlengthдлинаthicknessтолщина

strength прочность, сила

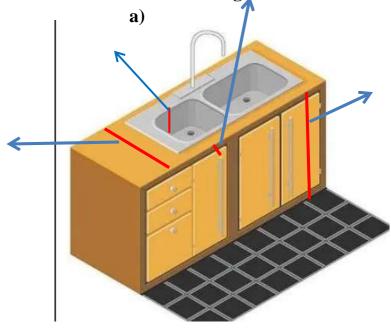
weight Bec

rigid жесткий

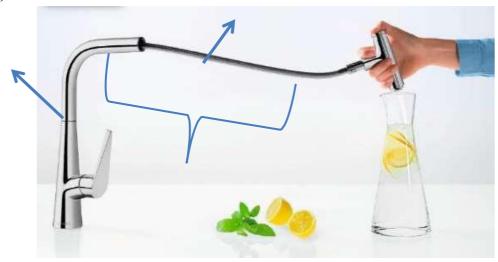
durability долговечный

flexible гибкий

# Exercise 1. Give a name to the following yalues:



b)



#### **Exercise 2. Read and translate the text:**

TO: g.hanson@ilmplumbing.com

FROM: h. breen@ilmpumbing.com

SUBJECT: Tomorrow's kitchen sink installation

Hi Gina,

Here are the details for tomorrow's installation. The sink has a width of two feet.

The height of the counter is four feet. The sink has a depth of one foot. The owner wants a side spray with flexible hose. The hose should be two feet in length. Before you install the sink, check the thickness of the counter. It needs enough strength to hold the sink's weight.

Also, now the owner wants PVC pipes under the sink, not aluminum. They're less rigid, but they have good durability. Please note these changes in yourwork order.

Harold Breen,

Manager, ILM Plumbing

## Exercise 3. Answer the questions:

- **a)** What are some strong materials?
- **b**) Find in the text the sentences in the Present Simple. Read them and analyze the verbs.
  - c) Read all the verbs and say whether they are regular or irregular.

## **Exercise 4. Mark the following statements as true or false:**

- 1 the sink has a larger width than depth.
- 2 the plumber must check the thickness of the hose.
- 3 the customer requested more rigid pipes.

#### Exercise 5. Match the words (1–6) with the definitions (A–F):

1. rigid	A. the measure of how heavy something is
2. flexible	B. not bending easily
3. strength	C. the ability to be used without being damaged
4. durability	D. the distance between two surfaces
5. thickness	E. the ability to withstand force
6. weight	F. able to bend easily

#### Exercise 6. Choose where the words best fit the blanks:

# width/height A A water heater with a \_\_\_\_\_ of five feet is too tall for this room. B If the \_\_\_\_\_ of that doorway is less than four feet, this dishwasher will

be too wide to fit.

2. length/depth

**A** The\_\_\_\_\_\_ of this sink is too shallow, we need a deeper one.

**B** The \_\_\_\_\_ of this pipe is too short.

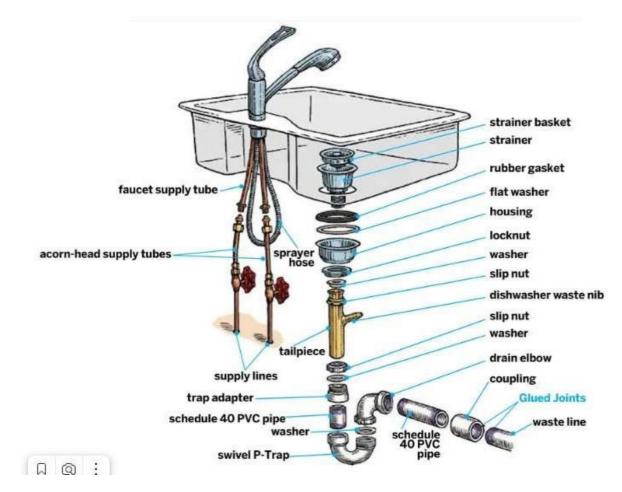
# Exercise 7. Read the information about the types of mounting installations for a kitchen sink:

Here are four different types of mounting installations for a kitchen sink into a countertop: under-mount, dual mount, drop-in, and farmhouse.

- *Drop-in* It is also referred to as self-rimming. The sink has a finished edge or rim Tand is installed on top of the countertop. If you are planning toreplace your sink soon, then this type of mounting is preferred. The sink can be removed and installed without damaging the countertop while at it.
- **Dual mount** This one has a flat rim that is the thickness of the material. They can either be installed above as a drop-in or as an under-mount making it quite versatile. This type of mounting is also favourable if you would want to remount the sink in the future. It also gives you flexibility when choosing your countertop.
- *Undermount* Also called a recessed sink is installed under the countertop and creates this seamless appearance. They can be mounted in a way it shows some of the sink rim or overhang where the rim isn't seen at all. If you are going for a quartz or natural stone countertop, then this is better for that. This one though you will have to get a professional installer to do it.
- *Farmhouse* Referred to as an apron front is mounted below the countertop exposing the sink front which extends slightly farther than the cabinet below.

Recommended for any solid surface countertop and offers a unique look. This installation type also requires a professional.

Exercise 8. Look at the picture and give the Russian equivalents of thesewords:



#### 5. PIPE INSTALLATION TIPS

#### **Vocabulary:**

to measure измерять to slide всовывать

to tilt поворачиваться

to cut резать

to rotate поворачивать

to mark отмечать

#### Exercise 1. Read new words and make up your own sentences using these words.

#### **Exercise 2. Read and translate the text:**

First, measure the correct length of pipe. Choose where to cut the pipe and mark the spot. To slice the pipe, we recommend a pipe cutter.

Slide the piece of pipe into the pipe cutter. Adjust the pipe cutter to fit the pipe. Then turn the wheels until the blade touches the pipe. Be sure that the pipe is straight. If the pipe tilts in the pipe cutter, it will not cut properly.

To saw through the pipe, rotate the pipe cutter. Remove any rough edges inside the pipe. Measure the new pipe segment to ensure it is correct.

#### **Exercise 3. Answer the questions:**

- a. What are some tools that can be used to cut a pipe into two pieces?
- b. What are the steps a plumber should take when cutting a pipe with a pipe cutter?

# **Exercise 4. Complete the chart according to the text:**

Step 1	andthe pipe.
Step 2	the pipe into a pipe cutter.
Step 3	Be sure that the pipe does not
Step 4	the pipe cutter tothough the pipe.

#### Exercise 5. Match the words (1–6) with the definitions (A–F):

1. measure	A	to place a sigh on something
2. tilt	В	to turn something over or around
3. rotate	C	to determine the physical properties of an object
4. slide	D	to move something along a surface
5. cut	E	to separate or divide something with a blade or edge
6. mark	F	to lean in a direction

#### **Exercise 6. Choose where the words best fit the blanks:**

#### 1. adjust/slice

- A Turn the wheel to \_\_\_\_\_ the wrench.
- B Be careful with that knife or you'll \_\_\_\_\_your hand.

#### 2. saw/turn

- A\_\_\_\_\_through the pipe with this tool.
- B\_\_\_\_\_ the screwdriver clockwise to tighten the screw.



#### 6. PLUMBING FIXTURES

#### **Vocabulary:**

bidet

countertopстолешницаshower sinkдушеваяbathtubваннаtoilet, water closet, lavatoryтуалетlaundryпрачечнаяbasinбассейн

# Exercise 1. Read the definitions of the words, and try to explain the differences between them:

биде

*Toilet* – a fixed <u>receptacle</u> into which a person may <u>urinate</u> or <u>defecate</u>, typically consisting of a large bowl connected to a system for flushing away the waste into a sewer or septic tank.

Water closet – a compartment or room with a toilet bowl: a toilet bowl with its

fixtures.

What is the difference between a water closet and a toilet?

In the US toilets are still referred to as water closets but urinals are not. This differentiates allows for easy labeling of fixture types that are approved for different types of waste. It may be important to note that the reference is only for the toilet only for the building codes

**Lavatory** – a room with conveniences for washing and usually with one or more toilets.

What is the difference between toilet and lavatory?

Lavatory is a word that is used as a euphemism for toilet which is considered improper and impolite in some places. Today, lavatory is used more often than toilet, and in fact, in all airlines of the world, this is the word that is used to refer towashrooms.

# Exercise 2. Read and translate the email MEMORANDUM

DATE: June 17

TO: Roger Wilson

FROM: Jerry Stein SUBJECT:

**Installing Fixtures** 

Hi Roger,

The house on the 10<sup>th</sup> Street needs some fixtures installed. Your crew shouldinstall them by tomorrow. There's a toilet ready to go in the downstairs bathroom. The fixture company will deliver the sink and bathtub. They'll also bring another toilet, bidet, and shower for the second floor. The family wants more than a water closet up there. They want a lavatory, as well.

Also, put a basin in the laundry. The company will deliver it today. Don't forget to install the kitchen sink. And clear the kitchen countertop when you finish.

Thanks, Jerry

# **Exercise 3. Answer the questions:**

- a) What are some common plumbing fixtures?
- **b)** Why is it important to know about different kinds of fixtures?
- c) What grammatical phenomena can you analyze in the text?

- **d**) Find in the text the sentences in the Present Simple. Read them and analyze the verbs.
  - e) Find in the text the sentences in the Future Simple. Read them.

#### Exercise 4. Mark the following statements as true (T) or false (F)

- 1 The plumbers should install the fixtures today.
- 2 The family wants a lavatory in the upstairs bathroom.
- 3 The basin for the laundry is on a kitchen countertop.

#### Exercise 5. Match the words (1–6) with the definitions (A–F)

1 – toilet	A a large sink
2 – laundry	<b>B</b> a water-spraying tube attached to some toilets used for
	cleaning
3 – bidet	C a room containing a toilet
4 – water closet	<b>D</b> dirty clothing to be washed
5 – basin	E a bowl-like fixture in a bathroom in which people
	relieve themselves
<b>6</b> – lavatory	<b>F</b> a room with one or more toilets and hand sinks for
	washing hands

#### Exercise 6. Choose where the words best fit the blanks

1.	countertop/shov	ver
	<b>A</b> The sink will rest on the	
	<b>B</b> The bathroom	will have a, not a bathtub.
2.	sink/bathtub	
	A This	holds thirty gallons of water.
	<b>B</b> Install this	in the counter.

#### 7. FAUCETS

## **Vocabulary:**

bathtub faucet смеситель для ванной shower faucet смеситель для душа tub and shower faucet смеситель для ванной и душа lavatory faucet смеситель для унитаза

diverter дивертер aerator аэратор

air gap воздушный зазор

spout носик handle ручка

# Exercise 1. Read and translate the micro text Faucets

## **New Product Listing: Complete Bathroom Fixture Set \$ 300**

This fixture set will provide many years of quality service. The lavatory faucet gives a refreshing cleanse with each use. The combination tub and shower faucet installs easily. The chrome bathtub faucet gives an even stream of water. The detachable shower faucet has a flexible chrome handle. An easy-to-turn diverter switches between faucets quickly and efficiently. This means less water washed and lower water bills. The shower spout has a multiple-setting swivel aerator.

Take care when installing this fixture set. The bathtub faucet and tub should have a 30-centimeter air gap.

To order this product, please call or complete an order form.

#### **Exercise 2. Answer the questions:**

- a) What are some common types of faucet?
- **b)** Why should a plumber know about different kinds of faucets?
- c) What grammatical phenomena can you analyze in the text?
- **d**) Find in the text the sentence in the Future Simple. Read it and analyze the verbs.

# Exercise 3. Mark the following statements as true (T) or false (F) having readthe product description about a fixture set (ex. 1)

- 1 The bathtub and shower faucets are separate units.
- 2 The shower faucet can be adjusted to different settings.
- 3 There must be at least thirty inches between the bathtub and shower faucet.

## Exercise 4. Match the words (1–5) with the definitions (A–E)

1 – diverter	A an attachment to something that can be gripped
<b>2</b> – air gap	<b>B</b> a fixture which directs the flow of water to and
	from the bathtub faucet and the shower faucet
3 – aerator	C the opening of a pipe from which water is
	released
<b>4</b> – spout	<b>D</b> part of a faucet which controls how water sprays
	out of the faucet
5 – handle	E a vertical space below a water spout which stops
	used water from flowing into the same spout
	·

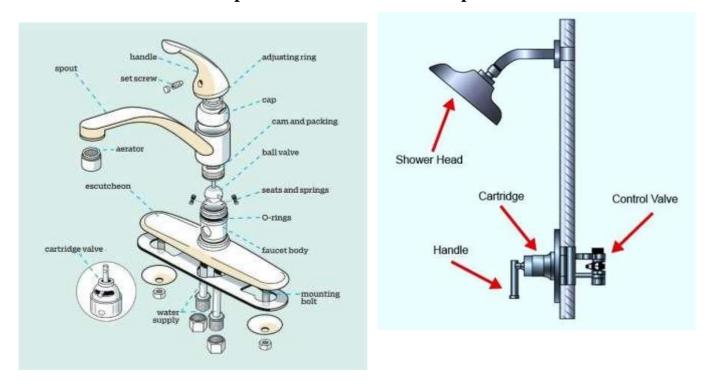
# Exercise 5. Fill in the blanks with the correct words and phrases from the word bank

# Word bank: bathtub faucet, shower faucet, tub and shower faucet, lavatory faucet

- 1 A should be installed about five feet high.
- 2 I installed a combination in my bathroom.
- **3** A \_\_\_\_\_ is only designed for hand washing.
- 4 A good can fill a tub in a few minutes.

## Exercise 6. Make up a dialogue on the theme «Faucets».

Exercise 7. Look at the pictures and name the main parts of the faucets.



Exercise 8. Retell the text (10–15 sentences).

#### 8. CLOG REMOVAL

Vocabulary:

blockage закупорка шнек

closet auger прочистить

to clear тросовый шнек

cable auger рукоятка

crank электрический шнек

electric power auger засор поршень

plunger водосточная труба

drainpipe

#### Exercise 1. Read and translate the text

#### **Clog Removal**

Some plumbing problems require the tools and know-how of a plumbing expert. Others simply require a determined homeowner and some basic equipment. Some of the most common of these plumbing issues are clogs.

The first way to clear a clogged drainpipe is to try using a plunger. Place the rubber cup over the sink or toilet drain to create a watertight seal. Then firmly pushthe plunger up and down. This will force water through the system and hopefully send the blockage on its way.

If the clog cannot be removed with a plunger, an auger may be needed. A closet auger has a relatively short flexible cable and a corkscrew tip. This will be sufficient for pulling out clogs in the first few feet of a drain system. If the clog is further back, you might need a cable auger. Also called a plumber's snake, this toolhas a long flexible cable that can extend far back into drain system. It will alsohave a cranking mechanism to extend and retract the cable.

Note: To avoid damaging pipes, an electric power auger is not is not recommended on lighter plumbing systems.

# **Exercise 2. Answer the questions:**

- a) What is a plunger?
- **b)** What are the tools for clearing clogged drains?
- c) What grammatical phenomena can you analyze in the text?
- **d**) Find in the text the sentences in the Future Simple. Read them and analyze the verbs.

#### Exercise 3. Choose the correct answers having read the text «Clog Removal»

**1.** What is the purpose of the chapter?

A to advertise clog removal tools

**B** to describe common causes of clogged drains

C to warn of the damage clogs can cause

**D** to explain how to clear a clogged drain

**2.** Which of the following should NOT be used on lighter pipes?

A plumber's snake

**B** cable auger

C electric power auger

**D** closet auger

**3.** What tools makes a watertight seal to push blockage through a pipe?

A plumber's snake

B closet auger

C electric power auger

**D** plunger

#### Exercise 4. Match the words (1–6) with the definitions (A–F)

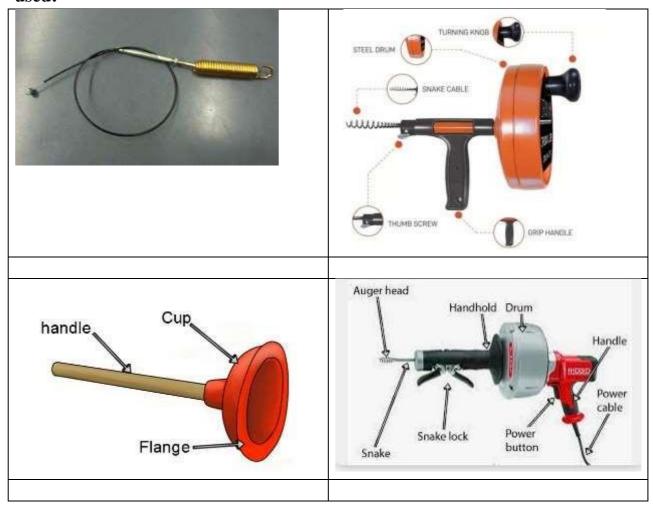
1 – blockage	A a clog removal tool with a J-shaped handle
2 – clear	<b>B</b> a clog removal tool with a long coiled cable and
	cranking mechanism
3 – crank	C to turn something in order to work its moving
	parts
4 – closet auger	<b>D</b> a clog removal tool that turns on electricity
5 – cable auger	E obstructive material in a piping system
<b>6</b> – electric power auger	<b>F</b> to remove obstructions from a pipe

# Exercise 5. Choose where the words best fit the blanks

# A Sue removed the \_\_\_\_\_using a plunger. B This \_\_\_\_has a thirty foot cable. 2 plunger / drainpipe A The rubber cup of the \_\_\_\_is red. B The plastic ball became lodged in the \_\_\_\_.

## Exercise 6. Make up a dialogue on the theme «Clog Removal».

Exercise 7. Look at the pictures, name the devices and tell for what there are used:



Exercise 8. Retell the text (10–15 sentences).

#### 9. PIPE REPAIR

## Vocabulary:

braided-stainless-steel плетенная нержавеющая сталь

pipe repair clamp burr хомут для ремонта труб заусеница

pinholeдырочкаspliceсоединениеoverlapперекрытиеferrules aнаконечники

leak split утечка

ріре сплит-труба

#### Exercise 1. Read and translate the text

#### Pipe Repair

Pipes make up the backbone of your home's plumbing structure. Without proper maintenance of pipes, your entire plumbing system could collapse.

The key to maintaining healthy pipes is catching problems early. A pinhole may seem minor, but it could quickly lead to a massive leak. These holes must be patched right away. Pinch a pipe repair clamp around the hole, and check surrounding parts for other signs of corrosion. Always ensure the area is clean and dry before applying a clamp.

For large holes or split pipes, you may need to cut the affected area and slice anew piece into the gap. Make sure you smooth any burrs around pipe edges with sandpaper after cutting. Then secure the replacement piece with ferrules. Take care to leave adequate overlap between the new piece and existing pipe.

Some types of pipe, such as braided-stainless-steel hoses, can be difficult to patch. Fortunately, these connections are often short, so the whole pipe is easily replaced.

And remember; always turn off the water supply before performing any pipe repairs. Otherwise, your small leak could turn into a massive flood.

#### **Exercise 2. Answer the questions:**

- a) What are some different types of leaks that form in pipes?
- b) Which repair methods are best for different types of leaks?
- c) What grammatical phenomena can you analyze in the text?
- **d**) Find in the text the sentences in Present Simple. Read them and analyze the verbs.
- e) Find the Genitive case. Give an example.

Exercise 3. Complete the table using information from the text

Problem	Solution
Pinhole	
Split pipe	
Difficult-to-patch pipe	

# Exercise 4. Write the word that is similar in meaning to the underlined part

1 The plumber attached a <u>metal ring that secures pipe ends</u> to the replacement piece.

2 You must tightly press the clamp to the damaged pipe before securing it.
n c _
3 Use paer with rough side to smooth the pipe's edges.
$s\_d\_p\_$
4 A <u>cracked or broken</u> pipe can cause serious plumbing problems.
_ p 1
Exercise 5. Fill in the blanks with the correct words and phrases from the word
bank
Word bank: braided-stainless-steel, pipe repair clamp, burr, pinhole, splice,
overlap
1 The major leak started as a tiny
2 Remember to in a new piece when the pipe has a large
crack or hole.
3 If the is too small, the pipe joint might leak.
4 Cutting the pipe formed a(n)along the edge.
5 If the hole is small, fix it with a(n)
<b>6</b> The sink faucet is attached to a flexible
Exercise 6. Mark the following statements as true (T) or false (F) having readthe
text «Pipe Repair»
1 The pipe has a pinhole leak.
2 The woman suggests a pipe repair clamp.
3 The plumbers will remove part of the pipe.
4 Pipes make up the backbone of your home's plumbing structure.

Exercise 7. Make up a dialogue on the theme "Pipe Repair".

Exercise 8. Retell the text (10–15 sentences).

#### **10. SITE COMMUNICATION**

Vocabulary: two-

way radio rough-in двустороннее радио

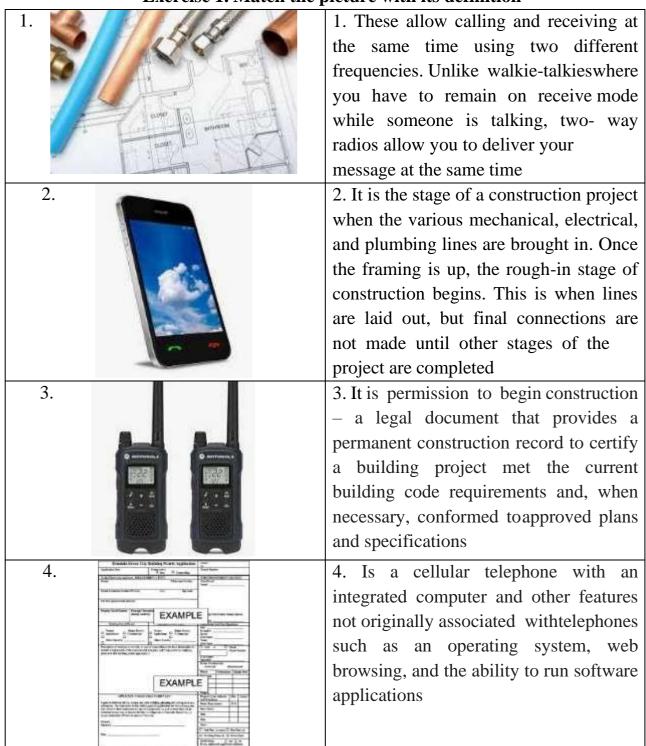
sheet consult черновой лист

building permit консультироваться разрешение

саггу на строительствонести

smart phone смартфон

#### **Exercise 1. Match the picture with its definition**



Exercise 2. Read and translate the email «Site Communication»

TO: Employees of Atchison Plumbing

FROM: Stephen Atchison, Owner

DATE: October 18

SUBJECT: Communication Issues

Hank Milton is the owner of Milton Homes. Mr. Milton is one of our biggest clients. Yesterday I received an email from him. Some of the fixtures in the Paradise Subdivision were not installed correctly. Apparently, there was confusion about the instructions on the rough-in sheet.

In these cases, employees should consult their on-site supervisor. This will allow you to confirm the correct way to do things. The employees on the job site were not carrying their smart phones. As a result, they were unable to call each other. The posted company policy states employees are to carry their phones while working. The company provides phones and two-way radios to all employees.

These allow you to contact me and each other while on the job. From now on, please be sure to carry your phones and radios.

Milton Homes received building permits for another subdivision. We will get the work orders for the plumbing. Let's do it right this time.

#### **Exercise 3. Answer the questions:**

- a) Why is it important for employees to be able to communicate with each other on job sites?
  - **b)** What are some methods they use to communicate on job sites?
  - c) What grammatical phenomena can you analyze in the text?
  - d) Find an example of the Possessive Case of a noun. Read it.

# Exercise 4. Mark the following statements as true (T) or false (F) having readthe email «Site Communication»

- 1 The email contains a new rough-in-sheet.
- 2 Some plumbing company employees violated company policy.
- 3 The client no longer wants to use the plumbing company.

# Exercise 5. Write the word that is similar in meaning to the underlined part

1 – The <u>written authorization to do a job</u> came in two days ago.

$$\_\_r\_\_t$$

2 – The store <u>displayed</u> a notice that it was closing at noon.

3 – The <u>electronic message</u> was sent to everyone in the company.

4 – The man <u>communicated</u> with the company about any job openings.

# Exercise 6. Fill in the blanks with the correct words and phrases from theword bank

Word bank: two-way radio, rough-in sheet, consult, building permit,		
carry, smart phone		
<b>1</b> – Thes	aid to hook up the washing machine last.	
2 – She looked up the dir	ections to the job site on her	
3 – The city issued a	for a house on the empty lot.	
4 – The employee must	her boss about how to solve the	
problem.		
<b>5</b> – Plumbers use	to communicate with each other.	
<b>6</b> – Please	_these pipes to the upstairs bathroom.	

#### Exercise 7. Retell the text (10–15 sentences).

# 11. DRAINAGE, WASTE, AND VENT INSTALLATION: VENTING

#### Vocabulary:

individual vent loop индивидуальная вентиляция

vent horizontal вентиляционная петля branchbranch vent горизонтальная ветвь

relief vent вентиляционное отверстие

circuit vent сброс сброса

venting island вентиляция контура

venting вентиляция

drainage fixture unit островная вентиляция узел fixture branch дренажной арматурыветвь

приспособления

#### Exercise 1. Read and translate the text

Proper venting of every fixture is an essential part of any DWV system. There are several different kinds of vents. Plumbers must be familiar with each type when installing a DWV system.

First, an individual vent serves a single fixture trap and connects to other vents or open air. Two of these vents can connect together to form a branch vent, which is a vent for a horizontal branch. Individual drains are connected to ahorizontal branch by a fixture branch.

Next, large bathroom areas in commercial buildings may use circuit vents, which can serve up to eight fixture traps. Relief vents must be installed with a circuit vent to circulate air between the drainage and venting system. Last, a loop vent is a special circuit vent located on the top floor of a building.

Two special kinds of venting systems usually require approval before installation. First, wet venting uses a single vent for more than one fixture. These are often used in household bathrooms. Second, island venting can be used for fixtures that are not next to a wall, such as some kitchen sinks.

Before a DWV system can be installed, piping must be properly sized. Sizing calculations use drainage fixture units, which measure the number of liters of water per second that flow from a fixture into a drainage system.

#### **Exercise 2. Answer the questions:**

- **a)** What are some segments of a drainage, waste, and vent system inside a building?
  - **b)** What are some different types of vents?

# Exercise 3. Mark the following statements as true (T) or false (F) having readthe textbook passage «Drainage, Waste, and Vent Installation: Venting»

- 1 Two individual vents connect in a branch vent.
- 2 Circuit vents do not require relief vents.
- 3 Island venting is usually found in bathrooms.

#### Exercise 4. Match the words (1–6) with the definitions (A–F)

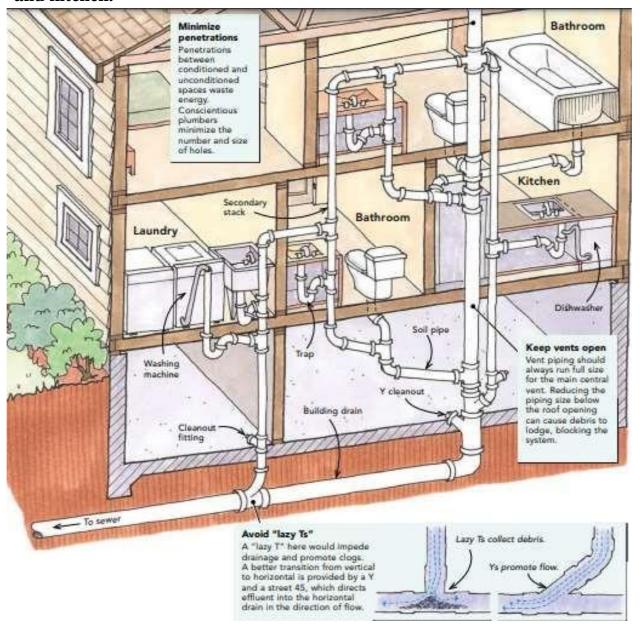
1 – individual vent	A a vent that ends by connecting to a stack vent instead of
	a vent stack
2 – loop vent	<b>B</b> a vent that connects to between two and eight fixture traps
3 – horizontal branch	C a pipe that connects two or more fixture drains to the main
	portion of a system
4 – branch vent	<b>D</b> a vent that connects a fixture trap to another vent or ends in
	open air
5 – relief vent	E a vent that connects one or more individual vents with
	a stack
6 – circuit vent	F a pipe that circulates air between a drainage and a vent
	system

# Exercise 5. Fill in the blanks with the correct words and phrases from the word bank

Wo	ord bank: venting, island venting, di	rainage fixture unit, fixture branch
	1 You will need to use	to reach the sink in the middle of the
room.		
	<b>2</b> Be sure to know the correct	measurement for that fixture.

3 You can use a single\_\_\_\_\_system for all the fixtures in the room.
4 You need to install a(n)\_\_\_\_\_to connect those drains to the system.

Exercise 6. Study the picture «Installation of a drainage system in the house». Write what tools and materials you will need to work in the laundry, bathroom, and kitchen.



#### 12. WATER SERVICE INSTALLATION

Vocabulary:

trench safety траншейная безопасность

backfill засыпка

burial-depth глубина захоронения

sleeve рукав

water service водоснабжение incoming outgoing приходящий исходящий

water meter water индикатор струи

таіп водомер

water service pipe водопроводная магистраль

водопроводная труба

# Exercise 1. Read and translate the email from a plumbing company owner tohis employees

#### **Water Service Installation**

TO: All Employees

FROM: tom@gainesplumbingco.com SUBJECT: New project / division of tasks

To All Employees:

I am pleased to announce that our company has won the contract to provide water service to the new university business school building. This is a major project that presents a great opportunity for our company. We will be digging the trench, laying the required pipes, and connecting the pipes to the interior plumbing.

We will need hard work from all employees to make this project a success. Duties will be as follows:

Kurt Wilcox's team will dig the trench and place backfill upon completion. Sue Harmon will be responsible for trench safety. This team must ensure anappropriate burial-depth at all locations.

Chris Simmons' team will lay the water service pipe and connect it to the water main.

You will need to connect the water utility to arrange a time forthe connection.

Diana Staley's team will connect the pipe into the building's plumbing. The building contractor has already carved a sleeve for the pipe to fit through. This

team will contract the water utility for the appropriate water meter to install. They should also provide a precise trickle indicator. Last, the team should check to makesure both the incoming and outgoing connections are working properly.

With your help I know this project will be successful.

Sincerely,

**Tom Gaines** 

#### **Exercise 2. Answer the questions:**

- a) What are some parts of a water service?
- **b)** How are water pipes connected in your country?
- c) What grammatical phenomena can you analyze in the text?
- **d)** Find in the text the sentences in the Future Simple. Read them and analyze the verbs.

# Exercise 3. Choose the correct answers having read the email from a plumbing company owner to his employees

- **1** What is the main purpose of the email?
  - A to explain how to install a water service pipe
  - **B** to explain where the new job is located
  - C to assign duties for a large new job
  - **D** to correct employee's mistakes on a previous job
- **2** Which of the following will NOT involve the water utility?
  - A getting a water meter
  - **B** obtaining a trickle indicator
  - C checking the incoming and outgoing connections
  - **D** finding time to connect pipe to the water main
- 3 What has the building contractor already done?
  - A joined the pipe to interior plumbing
  - ${\bf B}$  installed a sleeve in the building's foundation
  - C contacted the water utility
  - **D** found a good trickle indicator

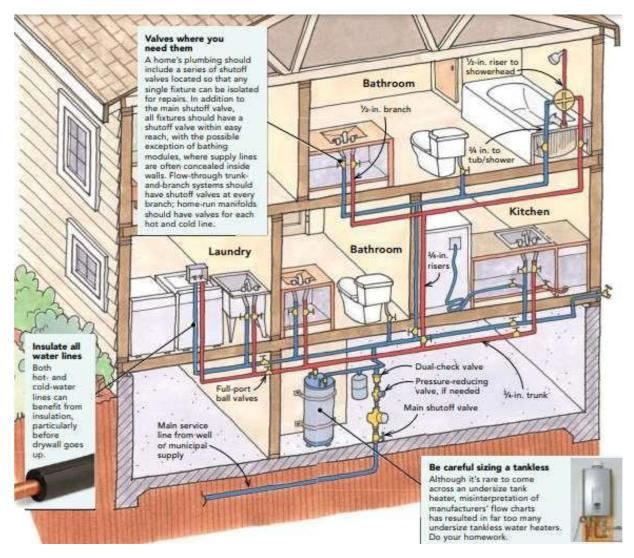
## Exercise 4. Match the words (1–5) with the definitions (A–E)

1 – trench safety	A steps workers take to protect themselves while
	in a ditch
2 – burial-depth	<b>B</b> a passage in a wall through which a pipe can be
	placed
3 – water service	C loose soil placed into a dug-out area
4 – backfill	<b>D</b> how deep underground a pipe is placed
5 – sleeve	E piping outside a building that connects a water
	source to piping inside a building

# Exercise 5. Choose where the words best fit the blanks 1 incoming / outgoing

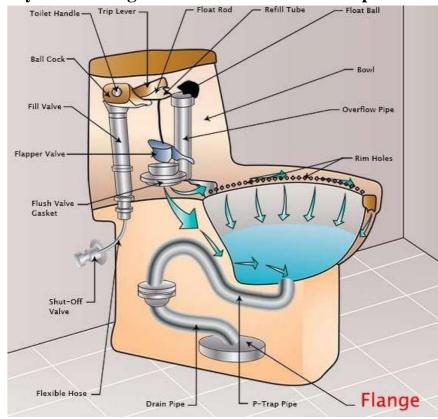
<b>A</b> The	connection must	t not be	working	because	water
is collecting inside.					
<b>B</b> Please check the	conn	ection, be	ecause the	ere is no	water
in the house.		,			
2 trickle indicator / water me	ter				
<b>A</b> No water is running, b	out the	sho	ows that the	ere is a le	ak.
<b>B</b> According to the	, yo	น used mเ	ich more v	vater this	month
than last.	-				
3 water main / water service	pipe				
A We called an expert pl	lumber to lay a		into	our new h	iouse.
<b>B</b> There was a break in the		that	shut off v	vater to s	everal
houses.					

Exercise 6. Study the picture «Installation of pipes for cold and hot water». Write what tools and materials you will need to work in the laundry, bathroom, and kitchen.



## 13. TOILET AND SINK INSTALLATION

Exercise 1. Study the drawing and translate the main components of the toiletbowl:



Exercise 2. Translate the words and make up sentences with these words:

rubber gasket
closet flange
one-piece toilet

	two-piece toilet
6	tank-to-bowl gasket
	tank supply
	closet bolt

**Exercise 3. Read and translate the text Toilet Installation** 

You will need:

1 tank-to-bowl gasket

1 chrome-finish copper tube supply

1 set including: 2 1/4" closet bolts, flat washers, and hex nuts

1 tube of caulking

1 tubing cutter

2 adjustable wrenches

1 adjustable pliers

1 flat-head screwdriver

1 hacksaw

## **Installing Guides for a Two piece Toilet:**

Step 1. Secure the tank and bowl using two non-corrosive bolts. Seal eachtank bolt with a rubber gasket to create a watertight seal.

- Step 2. Install the tank-to-bowl gasket over the threaded part of the flushvalve. This prevents the water transferring from the tank to the bowl from leaking.
- Step 3. Cut the tank supply tubing to the correct length. Use it to connect thewater supply and fill valve. Secure the tubing using the nut provided with the tank.
- Step 4. Install the closet flange to the drain pipe. Seal the connection witha wax seal.
  - Step 5. Use two closet bolts to secure the toilet base to the closet flange.
  - Step 6. If necessary, seal the base of the toilet to the floor using caulk.

**For a One-Piece Toilet:** Follow steps 3–6 as listed above.

#### **Exercise 4. Answer the questions:**

- **a)** What are some types of toilet?
- **b)** What are some things used to install a toilet?

#### Exercise 5. Match the words (1–7) with the definitions (A–G)

1 – closet flange	A a toilet that is sold in separate parts which the buyer
	must assemble
2 – one-piece	<b>B</b> made of material that will not easily wear away or
	erode
3 – tank supply	C a pipe fitting to which a toilet is bolted to mount it
	to the floor
4 – tank-to-bowl gasket	<b>D</b> a foam-rubber gasket used to keep water that leaves the
	toilet tank from leaking out
5 – two-piece	E a fastener that secures a toilet to the floor
<b>6</b> − closet bolt	<b>F</b> a toilet that is sold as one solid object
7 – non-corrosive	G a chrome-finished, copper tubing that connects to a fill
	valve

# Exercise 6. Read and translate the text. Sink Installation

Dear Mr. Jensen,

Here is the estimate for the installation of a new kitchen and a new bathroomsink. Included in the estimate are the following:

- The layout and assembly of both sinks. This includes permanently securing the kitchen sink with fastening clips.
- Costs for compression coupling connections, lavatory supplies, trap adapters, and slip joints for both sinks. The kitchen sink will need a continuous waste assembly. It also includes other installation materials such as adhesive latex caulk.
  - Costs for taking away and disposal of all trash resulting from this project.

The estimate does not include the cost of purchasing the new sinks for thekitchen and bathroom. The cost of sinks depends on whether you choose pre-

molded, stainless steel or cast-iron sinks. We can help you choose the type of sinkthat best fits your needs.

This estimate does not include the cost of any additional labor. If excess labor beyond installation is needed, it will be added to the estimate.

Estimated price: Kitchen Sink Installation \$230.00 Bathroom Sink Installation \$115.00

**Total Price:** \$345.00

If you have any questions regarding the estimate, please call me at 555-2678. Thank you,

Harriet Lancaster

Owner, Lancaster Plumbing

Exercise 7. Fill in the blanks with the correct words and phrases from theword bank

Word bank: stainless steel, excess, cast iron, compression, coupling,			
connection, adhesive, latex caulk			
1 The plumber wiped away thepipe cement.		pipe cement.	
<b>2</b> is	is a good material for sinks because it does not rust.		
3 James used	to seal the	kitchen sink tightly to the countertop.	
<b>4</b> The	sink was molded	into an oval shape.	
<b>5</b> A(n)	is needed to hol	d the pipes together.	

Exercise 8. Retell the text (10–15 sentences).

#### 14. SEPTIC SYSTEMS



## Vocabulary:

a septic system — септическая система household — домашнее хозяйство a soil absorption — поглощение почвы grease — жир to separate — отделять environmental — local government — местное правительство

to require –
benefit –
concrete septic tanks – steel
septic tanks – fiberglass
septic tanks –aerobic septic
tanks –

требовать выгода бетонные септики стальные септики септики аэробные септики

#### Exercise 1. Read the text and answer the question «What is a septic system?»

A septic system is an underground treatment facility for managing wastewater in a household. It consists of a septic tank and a drain field or a soil absorption capability. It ensures that the plumbing system of the house will not be filled with organic matter or scum, or solids such as grease, oil, or soil. This systemalso helps to separate wastewater properly so that the groundwater will not be contaminated and cause a health and environmental problem in your property.

Usually, a septic system is necessary if a house is on a raised area or far from the sewage pipes installed by the water supply company or the local government. According to the <u>Australian Bureau of Statistics</u>, about 95 per cent of homes in NSW rely on the local sewerage system for their wastewater disposal, while only 4 percent require a septic system.

#### Exercise 2. Cover the text and do the tasks after it.

#### Different types of septic tanks can cater to your requirements

State governments in Australia regulate the design and installation of the septic system based on the Australian Standards (1547 and 1546). A design accreditation must be secured with NSW Health before installation, and any designabove 2,500 litres must comply with additional regulations, per WaterNSW.

Assuming you're complying with the relevant standards, you have free rein in choosing the type of septic tank to install at home. The durability and strength of your septic system will depend on the materials you pick.

- Concrete septic tanks require less maintenance than those made fromother materials. The disadvantage, however, is that concrete may crack and clog, and these problems can remain undetected for a long time. Regular manual inspections of a concrete septic system are necessary.
- Steel septic tanks will not last longer than concrete because this material is prone to rust and can lose its structural integrity in due time. It has an advantage when replacements are required, though, as this can be done part by part, so there's no need to replace the whole tank. It's also easier to spot rust because signs of corrosion on the baffles will not be hard to miss.
- Fiberglass septic tanks are probably the most durable of all materials. They won't crack nor rust, unlike concrete or steel tanks. However, its effluent levels may not be as efficient as the first two options. Since fiberglass is light, then the

septic tank could shift underground if the soil around it dampens.

• Aerobic septic tanks are most efficient, but they can be expensive to use and to repair, should they break down because they run on electric power.

The installation of a septic system costs significantly less in the long runthan installing new pipes to connect your property to the sewer lines. You might pay within the range of \$5,000 to \$10,000 for a septic system of a four-bedroom house, but this is a one-time expense. City sewer connections, on the other hand, can cost anywhere from \$500 to \$20,000 but this rate also depends on the regulations of your local government, which might not even include the maintenance fees.

#### Mark the sentences true or false:

- 1. Concrete septic tanks will not last longer than concrete because this material is prone to rust and can lose its structural integrity in due time.
- 2. Fiberglass septic tanks are most efficient, but they can be expensive to use and to repair, should they break down because they run on electric power.
- 3. Steel septic tanks will not last longer than concrete because this material is prone to rust and can lose its structural integrity in due time.
- 4. Aerobic septic tanks are probably the most durable of all materials. They won't crack nor rust, unlike concrete or steel tanks.

#### **Choose the correct variant:**

- 1. This system requires less maintenance than those made from other materials. The disadvantage, however, is that concrete may crack and clog.
  - a) Concrete septic tanks
  - b) Fiberglass septic tanks
  - c) Aerobic septic tanks
- 2. This system is probably the most durable of all materials. They won't crack nor rust, unlike concrete or steel tanks. However, its effluent levels may not be as efficient as the first two options.
  - a) Aerobic septic tanks
  - b) Fiberglass septic tanks
  - c) Concrete septic tanks
- 3. This system has an advantage when replacements are required, though, as this can be done part by part, so there's no need to replace the whole tank.
  - a) Aerobic septic tanks
  - b) Fiberglass septic tanks
  - c) Steel septic tanks

# Complete the sentences, according to the text:

- 1. Usually, a septic system is necessary if...
- 2. The installation of a septic system costs...
- 3. Concrete septic tanks require...
- 4. Fiberglass septic tanks are...
- 5. Steel septic tanks will not last longer than...
- 6. Aerobic septic tanks are probably...

#### 15. WELDING

Vocabulary:

welding сварка

to join соединять

bolting болтовое соединение

rivetingarc клепка flux submerged дуга welding rod флюкс

погруженный

сварочный электрод

## Exercise 1. Read and translate the text

#### Welding

Welding is a process when metal parts are joined together by the application of heat, pressure, or a combination of both. The processes of welding can be divided into two main groups:

- pressure welding, when the weld is achieved by pressure and
- heat welding, when the weld is achieved by heat. Heat welding is the most common welding process used today.

Heat welding is used instead of bolting and riveting in the construction of many types of structures, including bridges, buildings, and ships. It is also a basic process in the manufacture of machinery and in the motor and aircraft industries. It is necessary almost in all productions where metals are used.

The welding process depends greatly on the properties of the metals, the purpose of their application and available equipment. Welding processes are classified according to the sources of heat and pressure used.

The welding processes widely employed today include gas welding, arcwelding, and resistance welding. Other joining processes are laser welding, and electron-beam welding.

#### **Gas Welding**

Gas welding is a non-pressure process using heat from a gas flame. The flame is applied directly to the metal edges to be joined and simultaneously to a filter metal in the form of wire or rod, called the welding rod, which is melted to the joint. Gas welding has the advantage of using equipment that is portable and does not require an electric power source. The surfaces to be welded and the welding rod are coated with flux, a fusible material that shields the material from air, which would result in a defective weld.

## **Arc Welding**

Arc Welding is the most important welding process for joining steels. It requires a continuous supply of either direct or alternating electrical current. This current is used to create an electric arc, which generates enough heat to melt metal and create a weld.

Arc welding has several advantages over other methods. Arc welding is faster because the concentration of heat is high. Also, fluxes are not necessary in

certain methods of arc welding. The most widely used arc-welding processes are shielded metal arc, gas-tungsten arc, gas-metal arc, and submerged arc.

#### **Shielded Metal Arc**

In shielded metal-arc welding, a metallic electrode, which conducts electricity, is coated with flux and connected to a source of electric current. The metal to be welded is connected to the other end of the same source of current. An electric arc is formed by touching the tip of the electrode to the metal and then drawing it away. The intense heat of the arc melts both parts to be welded and the point of the metal electrode, which supplies filler metal for the weld. This processis used mainly for welding steels.

## **Exercise 2. Answer the questions:**

- a) How can a process of welding be defined?
- **b)** What are the two main groups of processes of welding?
- **c)** How can we join metal parts together?
- **d**) What is welding used for nowadays?
- e) Where is welding necessary?
- **f**) What do the welding processes of today include?
- g) What are the principles of gas welding?
- h) What kinds of welding can be used for joining steels?
- i) What does are welding require?
- **j**) What is the difference between the arc welding and shield-metal welding?

#### **Exercise 3. Find the following words and word combinations in the text:**

Сварка давлением, тепловая сварка, болтовое (клепаное) соединение, процесс сварки, зависеть от свойств металлов, имеющееся оборудование, сварочный электрод, плавкий материал, дефектный сварной шов, непрерывная подача электрического тока, источник электрического тока.

# Exercise 4. Match the English words (1–10) with their Russian equivalents (A–J)

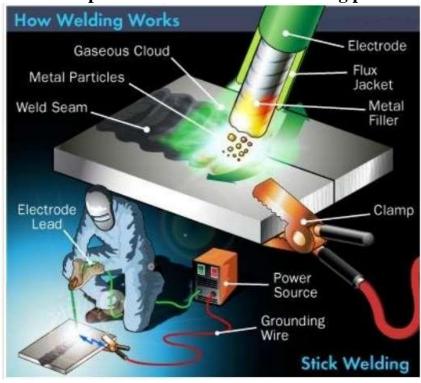
1. heat welding	А. флюкс
2. riveting	В. плавкий
3. gas welding	С. лазерная сварка
4. arc welding	<b>D.</b> сварка нагреванием
<b>5.</b> resistance welding	Е. клепка
<b>6.</b> laser welding	<b>F.</b> электронно-лучевая сварка
7. pressure welding	<b>G.</b> электродуговая сварка
8. electron-beam welding	Н. контактная сварка
<b>9.</b> flux	I. газосварка
10. fusible	<b>J.</b> сварка давлением

## **Exercise 5. Translate the following words and phrases:**

to join, instead, basic, to depend, purpose, available, equipment, source, flame, edge, simultaneously, filler, wire, rod, to melt, joint, advantage, to require, surface, coated, to shield, touching, tip, bolting, to manufacture.

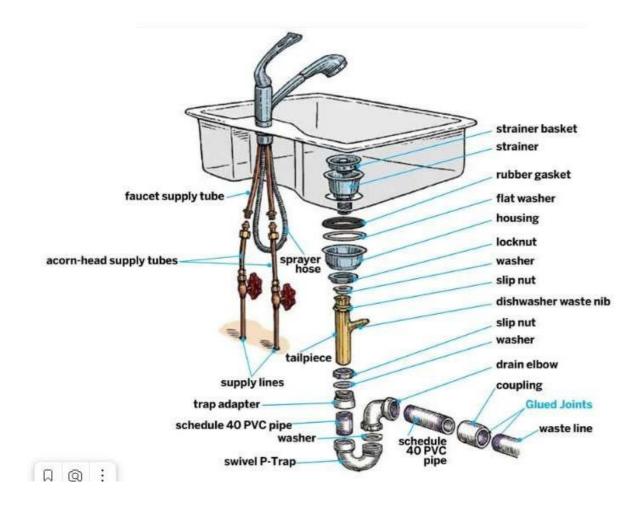
## Exercise 6. Retell the text (10–15 sentences).

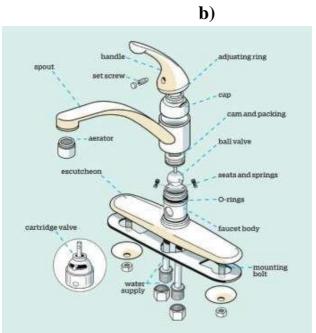
Exercise 7. Look at the picture and describe the welding process:



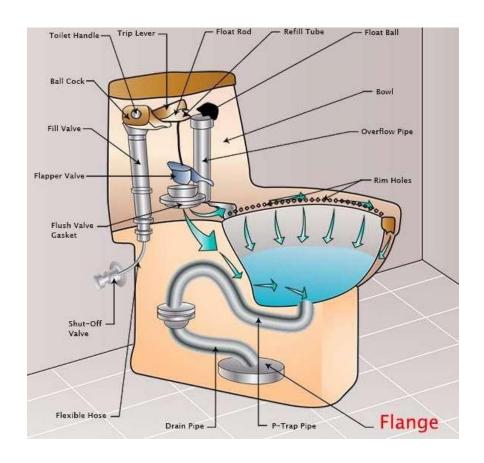
# Give the Russian equivalents:

**a**)





**c**)



d)

