

Министерство Российской Федерации  
по делам гражданской обороны, чрезвычайным ситуациям  
и ликвидации последствий стихийных бедствий

Академия Государственной противопожарной службы

А. С. Зюкова

**Developing  
Foreign Language Real Reading Skills  
for Professional Purposes**

Учебное пособие

Под редакцией доктора педагогических наук,  
профессора Н. В. Барышникова

Допущено Министерством Российской Федерации  
по делам гражданской обороны, чрезвычайным ситуациям  
и ликвидации последствий стихийных бедствий в качестве  
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Учебное пособие адресовано обучающимся образовательных учреждений МЧС России, специалистам в области противопожарной и спасательной службы. Пособие включает в себя шесть разделов: “Fire Prevention”, “Combustion Process”, “Classification of Fires”, “Extinguishing Media”, “Fire Extinguishment”, “Fire Appliances and Automation”.

Пособие может быть использовано как на аудиторных занятиях, так и для самостоятельной работы для подготовки обучающихся: по специальности 20.05.01 Пожарная безопасность (уровень специалитета); по направлениям подготовки 20.04.01 Техносферная безопасность (уровень магистратуры), 20.07.01 Техносферная безопасность (уровень подготовки кадров высшей квалификации); по дополнительной профессиональной программе повышения квалификации «Совершенствование навыков владения иностранным языком (английским) в сфере профессиональной деятельности по реализации образовательных программ» Академии ГПС МЧС России.

Учебное пособие направлено на формирование иноязычной читательской компетенции при работе с аутентичными профессионально-ориентированными текстами.

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## ВВЕДЕНИЕ

С учетом возрастающего потока иноязычной информации в пожарно-технической сфере становится очевидно, что специалисты МЧС должны владеть иноязычной компетенцией незатрудненного восприятия и понимания профессионально значимой информации из аутентичных иноязычных текстов с целью использования ее в решении профессиональных задач.

Особенностью данного учебного пособия является комплекс упражнений для обучения иноязычному реальному чтению, направленному на формирование иноязычной читательской компетенции при работе с аутентичными профессионально-ориентированными текстами. Представленная методика обучения иноязычному реальному чтению разработана с учетом недостаточного владения обучающимися иностранным языком, которое возмещается формированием таких вспомогательных компетенций, как компенсаторная, стратегическая, селективная.

Пособие включает в себя шесть разделов: “Fire Prevention”, “Combustion Process”, “Classification of Fires”, “Extinguishing Media”, “Fire Extinguishment”, “Fire Appliances and Automation”. Представленный материал предназначен для расширения профессионально-ориентированной лексики, которую изучают курсанты, магистры, адъюнкты Академии ГПС МЧС России по дисциплине «Иностранный язык» и «Иностранный язык в профессиональной сфере». Пособие может быть использовано как на аудиторных занятиях, так и для самостоятельной работы.

Работа над каждым разделом строится идентично. В каждом разделе представлены 5 основных текстов: от менее насыщенных терминологическими единицами к более насыщенным; от линейного представления информации к нелинейному и к смешенному; от общей проблематики текстов к вопросам специфического характера. После текстов представлены упражнения из каждой серии упражнений: серии общих упражнений, трех серий упражнений, направленных на постепенное развитие вспомогательных компетенций иноязычного реального чтения (компенсаторной, стратегической, селективной) и серии упражнений на тренировку психо-когнитивных механизмов малоопытного чтеца, а именно внимания, восприятия, мышления, памяти.

Прагматический подход к обучению иноязычному реальному чтению, представленный в данном учебном пособии, поможет обеспечить формирование готовности обучающихся использовать информацию на иностранном языке для решения задач в профессиональной деятельности.

# UNIT 1. FIRE PREVENTION

## *Text 1*

### IMPORTANCE OF FIRE SAFETY

*Safety Science* is a twenty-first-century term for everything that goes into the prevention of accidents, illnesses, fires, explosions, and other events that harm people, property, or the environment. Of these events, fire losses can be one of the greatest threats to an industrial organization in terms of financial losses, loss of life, loss of property, and property damage. Therefore, industrial fire protection and prevention are crucial components of any safety professional's job, be it serving as a loss-control consultant or a safety manager.

Fires can strike any type of workplace at any time, resulting in property damage, injuries, and deaths. The adverse financial effects can be felt by an organization long after the fire is extinguished. Fire is a hazard that can potentially strike any workplace.

Protecting the workplace from fires is a major job responsibility for safety managers. Not only do they have to ensure that the property is adequately protected to prevent catastrophic financial losses to the organization, but there is also the moral obligation to protect the workers and members of the community from the devastating effects that a fire can have upon the entire community.

Over the years, there are numerous examples of the effects that industrial fires have had upon both the workers involved and the communities in which they occurred. Some examples of the largest and most devastating industrial fires in the United States include the Triangle Shirtwaist Company fire, the Imperial Foods processing plant fire, the Phillips Petroleum chemical plant explosion and fire, and the Crescent City, Illinois, fire.

#### General tasks

##### **1. Answer the following questions.**

1. What does Safety Science deal with?
2. Why can fire losses be one of the greatest threats?
3. What does a safety manager do?
4. Can you give any examples of the effects that industrial fires have had?

##### **2. Comment on the following statements.**

1. Safety Science is of great importance in the 21<sup>st</sup> century.
2. Safety Science is related only to the prevention of accidents.
3. Fire is a hazard that can potentially strike any workplace.
4. Safety managers try to protect the workplace from fires.
5. Safety managers' moral obligation is to protect the workers and members of the community.

3. Present the information mentioned in the text “IMPORTANCE OF FIRE SAFETY” in a diagrammatic way. Complete the table below.

	SAFETY MANAGERS: DUTIES AND OBLIGATIONS	

4. Explain the meaning of the terms mentioned in the text “IMPORTANCE OF FIRE SAFETY”.

Safety Science, a loss control consultant, industrial fire protection, devastating effects, moral obligation.

**Develop your compensative ways of reading and understanding special texts**

1. Read the words and phrases in the table. Underline the words in the table you don’t understand. Read the text “IMPORTANCE OF FIRE SAFETY” paying attention to the words you’ve underlined. Find the meaning of the words which help you understand the text on the Internet/ your electronic device. (After reading the text) Have you had to find all the underlined words?

explosion, property, a loss-control consultant, strike, injury, responsibility, devastating effects
---

2. Read the text “IMPORTANCE OF FIRE SAFETY” and pay attention to the underlined key words. Then match the words with their definitions. If you have difficulties, use your electronic device. Try to work quickly.

1. catastrophic	a) the people who live in an area
2. community	b) causing a lot of damage, or making a lot of people suffer
3. devastating	c) loss of money or decrease in financial value
4. financial losses	d) causing a lot of harm or damage

3. Read the paragraph given below and try to use Google-translator for the fragments you don’t understand. Compare the translations you’ve found with the variants based on dictionary usage.

It is important to make the distinction between *fire prevention* and *fire protection*. Each term is unique, and the responsibilities of the safety professional for each aspect differ.

Fire prevention is the elimination of the possibility of a fire being started. In order to start, every hostile fire requires an initial heat source, an initial fuel source, and something to bring them together. Prevention can occur through successful action on the heat source, the fuel source, or the behavior that brings them together.

Fire protection requires the development of an integrated system of balanced protection that uses many different design features and systems to reinforce one another and to cover for one another in case of the failure of any one.

**From reading and understanding to reflecting and evaluating**

**1. Read the text “IMPORTANCE OF FIRE SAFETY”. Find the item / process / mechanism in the text which corresponds to the following description.**

1. It is the physical location where someone works.
2. A person who works at a specific job.
3. A violent release of energy resulting from a rapid chemical or nuclear reaction, especially one that produces a shock wave, loud noise, heat, and light.

**2. Read the text “IMPORTANCE OF FIRE SAFETY”. Choose the ideas corresponding to the text.**

	TRUE	FALSE
1. <i>Safety Science</i> is a twenty-first-century term for everything that goes into the prevention of accidents, illnesses, fires, explosions, and other events that harm people, property, or the environment.		
2. Fires cannot strike any type of workplace at any time.		
3. Fire is a hazard that can potentially strike your house.		
4. It is easy to prevent catastrophic financial losses.		
5. There are no examples of the effects that industrial fires have had upon communities in which they occurred.		

**3. Read the text “IMPORTANCE OF FIRE SAFETY”. Prove that the information mentioned in the text is important for the specialists. The questions to the text can help you.**

*Questions:*

1. What is Safety Science?
2. Fires can strike any type of workplace at any time, can't they?
3. How is it possible to protect the workplace?

**4. Imagine that you take part in the meeting dedicated to the problem of fire safety. You should present the information, the time limit for your presentation is only 2 minutes. You should present only the key issues. Read the text “IMPORTANCE OF FIRE SAFETY” and the text “FIRE PREVENTION – TIPS FOR THE WORKPLACE” given below. Prepare your presentation based on these texts.**

## **FIRE PREVENTION – TIPS FOR THE WORKPLACE**

### *Remove Clutter*

Fire prevention tips for the workplace can help prevent injury or death, keep the workplace safe and help prevent financial losses to the company as well.

One of the ways to reduce fire related episodes is to clear clutter out of office hallways and anywhere else in the office, according to the online work safety resource Safety Xchange. Papers and materials that are thrown together can catch fire if sparked by a frayed electrical wire or a spark caused by two metal pieces clashing together. Clutter can also block the emergency exits and make evacuating a burning building difficult. Make sure that obstacles are removed from in front of emergency exits to facilitate a smooth exit during an emergency.

### *Extension Cords and Power Strips*

Extension cords and power distribution strips are rated for a maximum wattage and amperage that they can safely withstand. Check the ratings on power distribution strips and extension cords before using them to make sure you are not running too much power through them. Only use an extension cord as a temporary electrical connection.

### *Maintenance*

Perform regular maintenance on equipment to catch any frayed wires or other potential electrical hazards, and to ensure that the equipment is running safely. Keep flammable liquids and materials stored properly and away from electrical circuit boxes of the outlets. Go through the building at least once a month checking on electrical connections to make sure there are no exposed or frayed wires that can cause a fire hazard.

### *Smoking*

Designate an area outside the building for smoking. Do not allow smoking in the work area, around desks with papers on them or near the garbage cans. Have a fire resistant receptacle available to smokers where they can safely put out their matches and dispose of used cigarettes.



**5. Read the text about “IMPORTANCE OF FIRE SAFETY” and the information about some types of evacuation given below. Define the best type of evacuation from the office which is situated on the 4<sup>th</sup> floor of the business center to avoid victims.**

#### **Simultaneous Evacuation**

In most premises, the evacuation in case of fire will simply be by means of everyone reacting to the warning signal given when a fire is discovered, then making their way, by the means of escape, to a place of safety away from the premises. This is known as a simultaneous evacuation and will normally be initiated by the sounding of the general alarm over the fire warning system.

#### **Vertical Phased Evacuation**

In some larger complex premises, the emergency arrangements are designed to allow people who are not at immediate risk from a fire to delay starting their evacuation. It may be appropriate to start the evacuation by initially evacuating only the area closest to the fire and warning other people to stand by. This is normally done by immediately evacuating the floor where the fire is located and the floor above. The other floors are then evacuated one by one to avoid congestion on the escape routes. The rest of the people are then evacuated if it is necessary to do so. The fire warning system should be capable of giving two distinctly different signals (warning and evacuation) or give appropriate voice messages.

#### **Horizontal Phased Evacuation**

In hospitals, and care homes the floor maybe divided into a number of fire resisting compartments and the occupants are moved from the compartment involved in fire to the adjacent compartment and if necessary moved again. Depending onto the fire situation it may eventually be necessary to consider vertical evacuation. Because of the extra time this type of evacuation takes, other fire precautions maybe be required. These include:

- voice alarm systems,
- fire control points,
- compartmentation of the premises using fire-resisting construction,
- sprinklers in buildings where the top floor is 30 metres or more above ground level.

**6. You need some information about characteristics of fire emergency evacuation plan to understand its features as you need to consider how you will arrange the evacuation from the premises with risk assessment and other fire precautions. The required information is given in the text bellow. Define what activities could help find the information you need:**

- *You should look up the specific terms and use an on-line dictionary.*
- *You can just scan the text, paying attention only to the specific terms.*
- *You pay attention only to the headings and words in bold.*
- *You will look for the information you need only taking into account the specific terms mentioned in the text.*

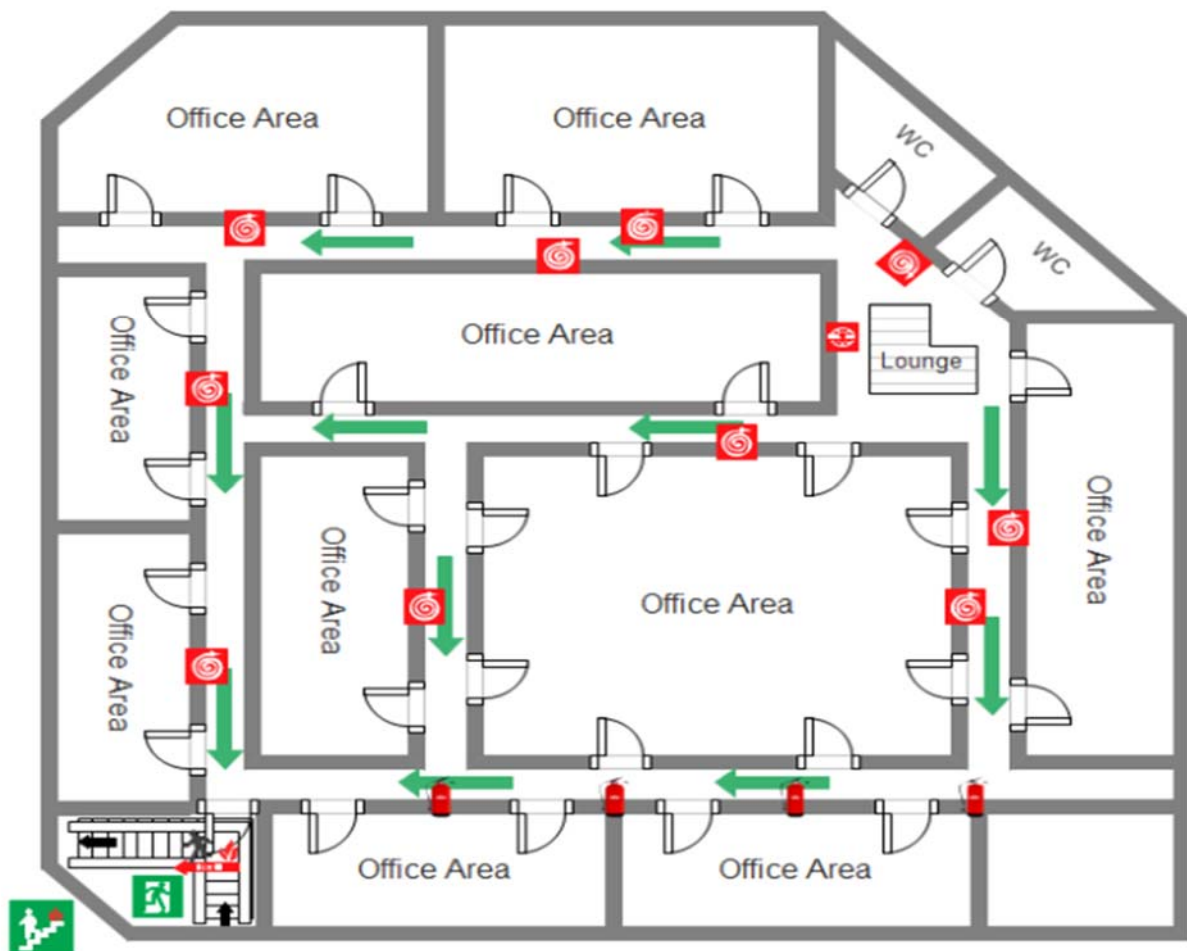
## FIRE EMERGENCY EVACUATION PLAN AND THE FIRE PROCEDURE

A fire emergency evacuation plan (FEEP) is a written document which includes the action to be taken by all staff in the event of fire and the arrangements for calling the fire brigade. It can include any relevant information in relation to the FEEP.

**General Fire Notice.** For small premises this could take the form of a simple fire action sign posted in positions where staff and relevant persons can read it and become familiar with its contents.

**Staff Fire Notice.** High fire risks or large premises will need more detailed emergency evacuation plan which takes account of the findings of the risk assessment, e.g. the staff significantly at risk and their location. In addition, notices giving clear and concise instructions of the routine to be followed in case of fire should be prominently displayed.

### Office Building Evacuation Plan



In certain cases you should nominate persons to implement the fire action plan and give them adequate training in fire fighting and evacuation procedures. The following items should be considered where appropriate:

- Fire evacuation strategy
- Action on discovering a fire
- Action on hearing the fire alarm
- Calling the fire brigade
- Power/process isolation
- Identification of key escape routes
- Fire wardens/marshals
- Places of assembly and roll call
- Fire fighting equipment provided
- Training required
- Personal Emergence Evacuation Plan
- Liaison with emergency services

### **Develop your ways of selecting information**

**1. Look through the text “IMPORTANCE OF FIRE SAFETY”. Find the events mentioned in the text that can become of the greatest threats to an industrial organization.**

**2. In pairs.**

*Student A.* **Imagine you have to prepare a report on “IMPORTANCE OF FIRE SAFETY”. And you are writing short notes for your report.**

*Student B.* **Imagine you have to prepare a diagram / scheme / table analyzing different types of possible causes of fires in the industrial organization and their consequences.**

**Read the text “IMPORTANCE OF FIRE SAFETY” and do your tasks according to the information from the text. Compare the selected information prepared by your group mate and you.**

### **Develop your psychological abilities**

**1. Read the 1<sup>st</sup> paragraph of the text “IMPORTANCE OF FIRE SAFETY” aloud and define if there are any terms.**

**2. Read the words in the table and cross out the words that aren't mentioned in the text given below. Your time is limited as you have only 2 minutes to do the task.**

safety, explosion, safe, training, prevention, extinguishment, conductivity, education, implementation, accidents
---

Fire and safety training courses give a basic idea about workplace safety and health practices, and the various ways to follow them. Fire fighting courses include basic training to respond to fire alarms, use fire extinguishers, and apply other measures to extinguish fire. Fire fighting courses are conducted to educate company/factory employers, authorities, and staff, about the necessity to implement safer and healthier practices at workplace. They will also be trained to respond quickly to accidents at workplace. Fire and safety training courses will inculcate the needed skills to prevent fire at workplace, and educate people about the basic elements of fire prevention and protection.

**3. You are given the table with 2 groups of words and phrases. It is necessary to put them in the correct order to make 2 sentences. Make a comprehensible text from these sentences.**

<ul style="list-style-type: none"> <li>– In most premises</li> <li>– the evacuation</li> <li>– everyone reacting to</li> <li>– by the means of escape</li> <li>– in case of fire</li> <li>– will simply be by means of</li> <li>– to a place of safety</li> <li>– then making their way</li> <li>– when a fire is discovered</li> <li>– the warning signal</li> <li>– away from the premises</li> </ul>	<ul style="list-style-type: none"> <li>– This is known as</li> <li>– and will normally be initiated by</li> <li>– a simultaneous evacuation</li> <li>– the sounding of</li> <li>– the general alarm</li> <li>– over the fire warning system</li> </ul>
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**4. Read the text “FIRE EMERGENCY EVACUATION PLAN AND THE FIRE PROCEDURE”. Study the words and word combinations given below. What paragraph do they refer to? Comment on it and complete the text with your description.**

<p>fire emergency evacuation plan, arrangements, relevant information, premises, familiar, high fire risks, findings, assessment, location, routine</p>
---

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