

Код УГПС – 09.00.00

ИНФОРМАТИКА И ВЫЧИСЛИТЕЛЬНАЯ ТЕХНИКА

Тема 4. Промышленные технологии и их влияние

## Use of industrial technologies in Russia

### 1. READING. Robotics revolutionizes industries

- What do pictures A-C have in common?
- There are no people in pictures A-C. Can you explain why?
- Read the text about the use of robots in different industries.



### Robotics Revolutionizes Industries

In today's world, the use of robotics in various industries has become quite common. Robots are programmable machines that can perform tasks with high quality. They revolutionize the operations in industries such as healthcare, agriculture, and logistics.

Healthcare. Robots are now used to assist in different medical procedures, reducing the risk of human error. These robots can perform complex operations with high quality and control. With the help of this technology patients have shorter recovery period. Robots can also assist in daily activities for elderly or disabled individuals.

Agriculture. In the agriculture, robots are used for different tasks. They can be used with harvesting crops. Agricultural robots have sensors and cameras that allow them to find fruit or vegetables that are ready to be collected and pick them without damaging. This not only saves time but also allows harvesting crops at the optimal time, resulting in higher quality products.

Logistics. Robots are used in warehouses and distribution centers to automate tasks such as sorting, packing, and transporting goods. These robots are never tired, and they reduce the need for human labor. They can easily navigate in warehouses and optimize the storage of products.

Robotics continues to develop, and we can expect that more and more robots-assistants appear in various industries.

**revolutionize** – изменять коренным образом  
**robotics** - робототехника  
**high quality** – высокое качество  
**healthcare** – здравоохранение  
**recovery period** – период восстановления

**agriculture** – сельское хозяйство  
**logistics** – логистика  
**harvesting crops** – сбор урожая  
**warehouse** - склад  
**optimize the storage** – оптимизировать хранение

d) Discuss in pairs:

- Find in the text advantages of using robots in the following industries:
  - ◇ healthcare;
  - ◇ agriculture;
  - ◇ logistics
- Think of other industries where robots can be used. What tasks can robots do in such industries?

## 2. SKILLS profile case

Project Task. *Use of robots in your region. Find information about the use of robots in your region and present it to the class:*

1. Think of the industry, company or public place, where robots are used in your regions.
2. Briefly describe this industry, company or place (what it is, what it produces or what services renders).
3. Describe what tasks are done by robots in this industry, company or place.
4. Think of whether these tasks were performed by people several years ago. If yes, find information about when robots started to perform these tasks.
5. Find one or two advantages and disadvantages of using robots for these tasks.
6. Present your findings to the class.