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**AUTOMATION**

 "Automation" is a new word for a new purpose. Ordinarily automation is any improvement in the control of some activity or process by non-human, i.e. 5 automatic means, but sometimes the term is defined more narrowly. Recent steps in automation have followed each other with unusual speed. Many people are surprised to learn that in industries like chemical and oil-refining entire processes have become very nearly automatic. They want to know how this has happened. Electronic computers are becoming very good at routine clerical work in offices and factories. „

Automation has many sides. It includes, for example, developments that are no more than advanced mechanization - transfer-machines in engineering, many kinds of machinery for making finished goods, and mechanical equipment for handling and assembly. Machines of this kind are automatic in that they do the actual work on their own; the operators only watch them and correct them whenever they go wrong - when, for instance, tools wear out.

But automation can also mean automatic control of processes and machinery, and this is a very different thing from mechanization, though the two go together. Control is necessary in a vast number of processes in order to maintain the quality of a product when the operating conditions, such as temperature and pressure, change from time to time. Vocabulary:

oil-refining entire processes - нефтеперерабатывающая промышленность;

control - управление; improvement - улучшение;

routine clerical work - однообразная канцелярская работа; engineering - проектирование;

 goods - изделия, продукция;

mechanical equipment - механическое оборудование;

handling - обращение, управление; assembly - сборка;

purpose - цель;

tools - инструменты;

 are suiprised to learn - удивляются, когда узнают;

in that they do - в том смысле, что они выполняют; on their own - самостоятельно;

whenever they go wrong - всякий раз, когда они допускают погрешности;

wear out - выходить из строя.

Find equivalents in English in the text:

 Новая цель, улучшение в управлении, химическая и нефтеперерабатывающая промышленность, готовая продукция, качество продукции. 6 Complete the sentences. a) automation is...; b) control is necessary in order to ...; c) In industries like chemical and oil-refining entire processes have become...; d) Electronic computers are becoming very good at...; e) Control is necessary in...

**Аnswer the following questions:**

1. What is automation?

 2. What industries have become very nearly automatic?

 3. What is the difference between "automation" and "automatic control"?

4. What is the purpose of automatic control?

5. Where are electronic computers employed?

**Translate the sentences.**

1. The problem to be studied can be simplified by the use of controlled experimental conditions;

 2. To produce this effect, it is actually much simpler to use alternating current;

 3. The beginnings of all science are supposed to lie far back near the dawn of human history;

 4. We know many human activities to have played a part in scientific inventions; 5. To separate iron from sulphur is an easy task;

6. The function of a boiler is to transfer heat to the water in the most efficient manner;

7. Mechanization is to be distinguished from more primitive tool using.

 Выполненное задание отправить по электронному адресу: kmtenglish2020@gmail.com

Обязательно указать группу, фамилию и имя студента