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Unit 3: Activity 4: Listening Comprehension

Electricity in Everyday Life

Transcript

Hello everyone, and welcome to today's lesson.

Have you ever thought about how important electricity is in our daily lives? Almost everything we use depends on electrical energy, from our mobile phones and computers to lights, refrigerators and public transport.

Electrical engineering is the branch of engineering that studies electricity, electronics and electrical systems. Electrical engineers design, build and maintain the equipment that produces and distributes electricity safely and efficiently.

One of the basic concepts in electrical engineering is the electric circuit. A simple circuit includes a power source, such as a battery, conducting wires and a load, such as a light bulb. When the circuit is closed, electric current flows through the wires and the bulb lights up.

Engineers also work with different electrical components. Resistors control the flow of current, switches open and close circuits, and transformers change voltage levels so that electricity can travel long distances safely.

Safety is one of the most important aspects of electrical engineering. Engineers must design systems that protect people from electric shocks, short circuits and fires. They also make sure that electrical equipment follows national and international safety standards.

Today, electrical engineers are helping to create a more sustainable future. They develop renewable energy systems using solar panels and wind turbines, improve battery technology for electric vehicles and design smart electrical grids that reduce energy waste.

Electrical engineering is a rapidly changing field that combines science, mathematics and technology to solve real-world problems. Without electrical engineers, modern society would not function as it does today.

Thank you for listening.