



STUDENT ACTIVATION

Electrician

CHS is the largest farmer-owned cooperative in the United States and one of the biggest names in **agronomy** and energy—including grain processing. **Electricians** who install and repair electrical apparatuses for lighting, power and control mechanisms, and communications are vital to maintaining the smooth running of operations. Keeping the electricity needs for the systems under control can seem almost impossible. This is where electricians play a key role!

Grain Processing: Refining grains through a milling process that removes the bran and germ.

ELECTRICIAN

Electricians typically read blueprints or technical diagrams to install and maintain wiring, control, power, and lighting systems for companies or residences. They inspect electrical components, such as transformers and circuit breakers, identify electrical problems using a variety of testing devices, and then repair or replace wiring, equipment, or fixtures using hand tools or power tools. Electricians must follow state and local building regulations based on the National Electrical Code. Head Electricians often direct and train workers to install, maintain, or repair electrical wiring or equipment.¹

IS ELECTRICIAN A GOOD CAREER FOR ME?

Me	Electrician
I can identify problems and find creative solutions to those problems.	Electricians must be able to identify electrical issues and often design creative solutions.
I enjoy hands-on projects, labs, or activities.	Being an Electrician is a hands-on career that challenges both the mind and body.
Details are important to me, and I am detail-oriented.	Electricians must pay attention to small details in the work that they do. It is important they notice these details to do their work efficiently and safely.

How does this career help me?	How does this career help the world?
<p>Electricity powers much of the world around us from our mobile devices to our homes. Electricity gives us warmth when it is cold outside and helps keep us cool in the hot summer heat. It also gives us the ability to keep our food safe and fresh! Every day, Electricians make this possible.</p>	<p>Around the world, public transportation systems, hospitals, production, refrigeration, heating/cooling, lighting, and so much more are possible because of electricity. Electricity helps improve living standards and fuels economic growth.</p>

What are some similar careers?
<p>Electrical Engineers understand how electricity works and use this information to design, build, test, and analyze electrical equipment.</p> <p>Electrical Designers design and plan electrical systems for residential, commercial, and industrial locations.</p> <p>Power Plant Operators maintain power plants by managing the different components that generate electricity at their plant.</p>

Here are some ways to practice the skills to be a successful **electrician**:

- Consider shadowing an electrician in your community to discover the various ways that they identify problems and determine solutions. Keep in mind that there are various types of electricians in your community.
- Research where your community gets its electricity and how your local power grid works. Discover various ways to improve the existing system.
- Take a physics class to discover how electricity works to power the world around us.

¹ <https://www.bls.gov/ooh/construction-and-extraction/electricians>