



VIRTUAL REALITY LINeworker EXPERIENCE VOLUNTEER GUIDE

The Virtual Reality Lineworker Experience introduces students to the work of Missouri power line technicians by placing them in a 360° view high above the lines. In this 10-minute activity, students look around the environment to spot six hidden letters and key safety equipment, working together to reveal a mystery word.

At the start of each 20-minute rotation, divide students into two groups with the Electrical volunteer. Each group spends 10 minutes at Electrical and 10 minutes at Virtual Reality, then switches stations.

Before the session begins, please review:

- Virtual Reality Electrical Training
- Virtual Reality Lineworker Experience Volunteer Guide

Device Preparation

Before students arrive:

- Follow attached instructions to set up backup iPad video option
- Keep all headsets plugged in and charging until the first group arrives
- Confirm each headset is set to the correct play boundaries
 - Reminder: when testing headsets, it is important to sit in the chair assigned to that headset
- Each headset and controller (controllers will not be used by students) are labeled with a number

Student Use

- Students must remain seated throughout the experience
 - They are allowed to swivel in their chairs and look in all directions
 - If they move outside the play boundary, the video will stop until they return
- Students should NOT put on headsets until instructed

- If at *any time* a student feels light-headed, dizzy, or nauseous, they should remove the headset immediately
 - They can use one of the iPads to watch the video instead
- If a student wears glasses, the headset may fit and function better if the glasses are removed before use
 - Headsets have adjustable straps
- When not in use, place headsets face down on the table with the straps moved to the side
 - If the straps cover the lenses, the headset may think someone is wearing it and will keep playing

Instructions to Read Aloud (Bolded Sections)

Welcome to the Virtual Reality Lineworker Experience!

Today, you will get to experience a lineworker working on some of the tallest power lines in Missouri. In the video he is installing glass cylinders to insulate the power line.

What skills do you think they need? What would your community look like if there were no linesmen?

Explain how to use the headset and the safety reminders.

As you explore, look for (6) letters scattered throughout the video. These letters form a mystery phrase. Call out the letters when you see them and try to guess what word it spells. Also, be on the lookout for safety equipment and share what you can identify.

You may now put on your headsets. The video is around 6 minutes long and may already be playing, and it will loop automatically. You will only need to watch one full loop (have them take off the headset when they are done and set facedown with the straps moved to the side) There will be a brief dark screen for a few seconds between the end and the restart of the video, so allow a moment for it to begin again.

Wrap-Up Discussion

- **Did you solve the mystery phrase? What is it?**
 - SAFETY
- **What safety equipment did you see? Why is it needed?**
 - Hard hat
 - Harness
 - Safety gloves
 - Safety line
 - Ladder

- Boots
 - High-Visibility vest
- **Do you think you would be able to do this job?**
 - Physical requirements (strength, stamina, coordination, courage, strong work ethic, etc.)
 - Mental requirements (algebra for equipment calculations, geometry for setting proper angles, etc.)
 - Work/Life balance (late nights, early mornings, long hours during storms/outages, etc.)
 - Training (trade school, vocational training, union or on-the-job apprenticeship)
 - About 2 years of combined training and supervised field work
 - Certification is typically required
- **Can you guess what the pay might be?**
 - Median pay: ~\$80,000/year (approx. \$40/hr) (Most lineworkers are hourly)
 - High potential earnings with overtime (some experienced workers earn \$300K+)