

Electricity & Safety Unit

Teachers notes - Lesson 2 - Slide 21

Dangerous situation 4



Explain the following scenario to the students.

Jane is flying a crop duster on her family farm. She has a lot of experience with flying and feels confident flying between and beneath the power lines. However, on this day, it's very windy on the farm.

Explore with your students some of the dangers involved in this scenario:

- Jane could crash the crop duster if she hits the powerlines. This could cause her to be badly injured
- The crop duster could get stuck in live powerlines. If sparks of electricity flow out of the damaged powerlines and come into contact with leaking petrol from the crop duster, this could cause an electrical fire. If Jane is unable to free herself from the crop duster, she could be badly injured
- The powerlines could create a new circuit of electricity, using the metal parts of the crop duster as a conductor. If Jane is touching any of the metal parts of the crop duster and the ground at the same time where electricity is flowing, she could become part of the circuit and receive an electric shock