

December 16, 2023

## LOGBOOK

- deal with electrical, natural gas, sewerage, areas that need safety precautions.

- ~~serious~~ <sup>serious</sup> heights

- high voltage electricity

- dangerous chemicals

- power tools

- PPE (Personal protective equipment)

- PPE: Hardshell helmets, Safety goggles, gloves, Flame resistant uniforms.

- guide lines (clothes tight, tucked in, working in layers).

January 1<sup>st</sup>, 2024

- Electricities goal ground itself

- Biggest conductor earth

- Human body conducts electricity like earth.

Jan 1<sup>st</sup>, 2024

- nerves, vessels, muscle, & skin easy for electricity to travel through
- Not a good thing
- electricity goes around or through you
- travels through part close to source
- following least resistant path
- If wearing rubber shoes or anything rubber the current won't come out
- wearing rubber can prevent injuries
- minor shocks and low power source shocks will most likely not enter your body but damage your skin.
- it will enter the body through a wound if SEVERELY electrified.
- wound is place in contact with electrical source.
- nerves, vessels, muscles may be severely damaged by electrical current.

Jan 1<sup>st</sup>, 2024

- electricity tries to go through bones.
- if bones are heated enough the tissue around it will be badly impacted with a "Dead limb", or amputation.
- the electricity will leave your body through an exit wound usually below the knee.
- BRCA (Burn & reconstructive Centers of America)
- Electrical injury = burn ←
- first degree burn (mild to fourth degree burns (severe))
- First degree: red or pink skin no blistering
- Second degree: red & moist blistering
- Third degree: dry, tight, & leathery, brown/tan/waxy
- Fourth degree: black & charred perhaps muscle or bone involvement.
- Traumatic injuries

Jan 1<sup>st</sup>, 2024

## Questions for Meara's uncle!

- ~~- What was your experience while you were training?~~
- ~~- Would you say it was hard for you mentally & physically?~~
- ~~- If you could turn back time would you?~~
- ~~- What work has done you ever?~~

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- What was the training?
- How long did it take?
- Do you get trained regularly as in once a year or not?
- How do you train with <sup>the</sup> electrical equipment?
- What were the requirements to being a powerline technician.
- What was the easiest/hardest part of training.
- Were you ever afraid of using electrical wires.

Jan 1<sup>st</sup>, 2024

## Questions For Meara's uncle!

- Have you ever been electrified?
- If so what was the feeling? If not has someone you know been? you do not have to say names!
- Were you ever afraid of heights
- Are there different positions like some<sup>one</sup> to put up powerlines and others to maintain them?
- Could you describe how the equipment is helpful with keeping yourself and others safe?
- Are there <sup>safety</sup> procedures in case something happens and what would happen?
- How long have you worked for?
- Have you ever been severely injured?

Jan 2, 2024

- Traumatic injuries
- spinal or cranial injury
- electric shock
- shock powerful enough to throw person or at a great height
- Spinal injuries may happen after sudden extension of tetany.

~~4~~

Jan 2, 2024

- getting to know tools
- climbing gear
- get right size for equipment. ~~first months~~
- 6 months of training now before couple of weeks
- learn how to climb - good climbing position.
- 4 years of training
- 2 months once a year regularly
- school - math - physics - how electricity works.
- phitnace test
- learning from others
- high school deploma - math, physical tests  
20 grad 11 70%
- skills test / ability in interviews climbing  
role, digging hole, driving
- physical test
- mildly electricuted - feels like bee stings
- usually when PPE is wet

Jan 2, 2024

- not afraid of heights
- ENMAX Everyone does everything but different groups people do above and below ground.
- underground is harder (you don't know where the lines go safety!!)
- Net work downtown
- city blocks have small rooms 10 feet deep 10 feet across 16 feet long.
- protect from falling from heights
- bucket truck (harness attached)
- high voltage in bucket truck - reaches 55 feet 1 or 2 that reach 120 feet
- bucket fiber glass
- rubber gloves
- ~~the~~ line breaks, tree falls
- D energized from sub station



Jan 2, 2024

- 18 years
  - my Dad told him
  - transmission powerline
  - distribution powerline
- ~~\_\_\_\_\_~~

Jan 3, 2024

- apprenticeship - 4 years - 12 month period
- 1525 hours on job experience on-the-job
- 7 weeks classroom instruction in first 3 years
- min 1800h on-the-job training in 4 year

Jan 13, 2023

## Sub station

In the event of an emergency in which a powerlines electricity is dangerous power line technician will send someone to a sub station to de energize the electric current so that it is safe to work with well bringing it back up

Jan 15, 2024

## What is a Sub Station?

A sub station is a place where power goes through to get to houses.

Once the electricity is in the sub station it goes down so that it is safe to go in the houses.

## Bird on a wire!

-It works because if the bird is on one line they can't be electricated because there is no 2nd current.

Data

- Find good site
- Info in file