

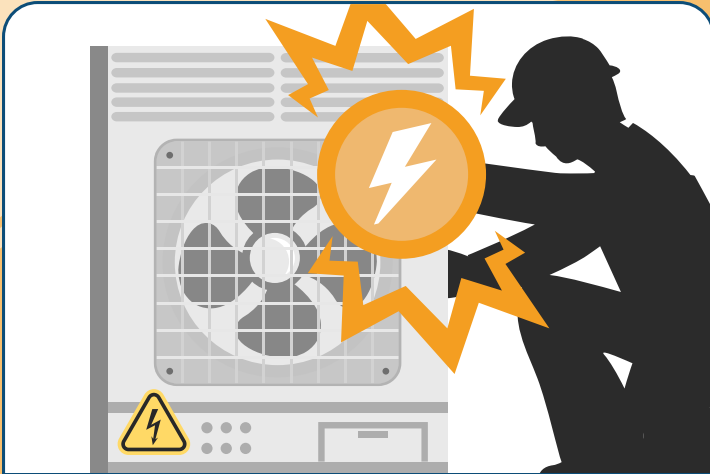
CONSTRUCTION SAFETY

HEATING, AIR CONDITIONING, & REFRIGERATION MECHANICS

electrical **safety**
FOUNDATION



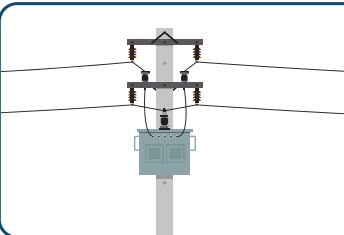
According to the Occupational Safety and Health Administration (OSHA), **Heating, Air Conditioning, and Refrigeration Mechanics is one of the occupations with the most electrically-related workplace fatalities.** A total of 90% of these workplace fatalities occur when a heating, air conditioning, and refrigeration mechanic comes in contact with **energized equipment** or **parts on or near the device they are working on.** 70% of all worker electrical fatalities occur in non-electrical occupations.



90% of Heating, Air Conditioning, and Refrigeration Mechanic workplace fatalities were caused by **contact with or working near energized conductors or parts.**



60% of fatalities occurred while a mechanic was **troubleshooting or testing a device.**



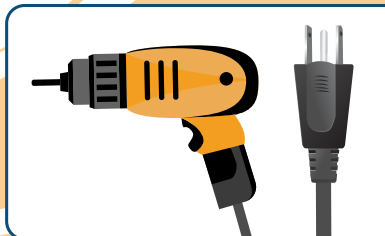
Locate and identify utilities, such as overhead power lines before starting work. **Call 811 before you dig.**



Look for overhead power lines when operating any equipment.



Always use **ground-fault protection.**



Do not operate portable electric tools unless grounded or double insulated.

Voltage **Safe Distance**

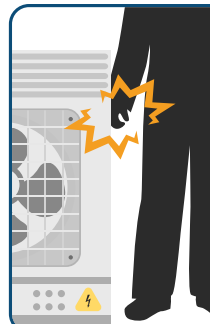
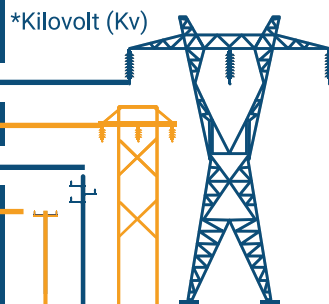
500 Kv – 800 Kv **19 – 24 Ft**

230 Kv – 362 Kv **13 – 16 Ft**

41.1 Kv – 169 Kv **10 – 12 Ft**

<50 v – 46 Kv **10 Ft**

Know and maintain **safe distances** from power lines.



Be aware of energized equipment or parts near you. Many fatalities occur from workers **accidentally** coming in contact with energized equipment or parts near them.