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.