

Safe distance from outdoor high-voltage distribution boxes



Overview

Workers must keep a safe distance of at least 1 metre (3.3 feet) from low-voltage powerlines to be protected from exposure to electrical shock or arc flash burn.

Dedicated space: The space equal to the width and depth of electrical equipment in addition to the space extending from the floor to 6 feet above the equipment or structural ceiling. The International Standards of Practice for Inspecting Commercial Properties (ComSOP) states that the inspector. Utility companies require a minimum clearance of 10 feet in front of this access side to allow personnel to safely operate the unit with specialized insulated tools, often called “hot sticks. The safety clearance is crucial for the safe and efficient operation of the power. 300 mm (12 in. Employers must take every reasonable precaution to prevent hazards to workers from energized.



Article Content

Feb 08, 2026

General guide for working in the vicinity of overhead and underground ...

Approach distances are only part of an overall safe system of work you should use when working in the vicinity of overhead electric

Feb 11, 2026

Determining Safe Distances from Electrical Hazards

Please see the chart below to determine these distances for the above identified voltages and greater:

Nov 02, 2025

Technical Guidance Note 287

Impressed voltage the high-voltage equipment. These impressed voltages are caused by inductive or capacitive coupling between

Dec 17, 2025

Thumb Rules for Working in Switchyard and HV Areas | EEP

Vehicles and movable equipment secured for transportation may operate in switchyards and high-voltage areas,

May 14, 2026

What Is a Safe Distance From an Electrical Transformer?

Adherence to mandated physical clearance distances is the most immediate safety measure, ensuring utility workers can safely

Jan 01, 2026

The installation requirements for the distribution box

A distribution box is the heart of any electrical system. It takes the incoming power and safely distributes it to different

Mar 04, 2026

Guideline for Working near Overhead Electrical Powerlines and ...

Workers must keep a safe distance of at least 1 metre (3.3 feet) from low-voltage powerlines to be protected from exposure to

Sep 28, 2025

Electrical Installation Clearance Guidelines | PDF | Transformer | High ...

It details requirements for working space around electrical panels, transformers, and outlets to ensure safety and compliance,

Dec 15, 2025

Electric Power Generation, Transmission, and Distribution eTool

Avoiding over-voltage exposures. Tables R-7, R-8, and R-9 provide guidance for adjusting the Minimum Approach Distances to avoid

Dec 07, 2025

1910.269

Application. Paragraph (o) of this section provides for safe work practices for high-voltage and high-power testing performed in

Mar 02, 2026

Safety Clearance for Indoor & Outdoor Power Distribution Equipment

In the substation layout, the safety clearance between distribution devices refers to the minimum distance maintained

Apr 08, 2026

Safety clearance between high voltage test systems and parts of air-in ...

Abstract In the context of high voltage testing on-site within operating air insulated substations (AIS), the question of safe distances

Oct 05, 2025

Minimum Clearances from High-Voltage Lines

To stay safe, follow the minimum horizontal clearances from high-voltage power lines when locating buildings, storage areas and

Jan 10, 2026

Safety Clearance Recommendations for Transformer

It includes clearance from outdoor liquid insulated transformers to buildings (NEC), Dry type transformer in indoor

Sep 06, 2025

Safe Clearances for Electrical Equipment: Working Space and

Working space: The front clearance, side clearance, and height clearance requirements for electrical equipment that

Jan 01, 2026

Minimum Electrical Clearance Standards | PDF | High Voltage

This document provides information on minimum electrical clearances for various voltage levels according to different standards and

Jun 18, 2026

Rule 1: Work a safe distance

Rule 1: Work a safe distance This is the most important rule: Work at a safe distance from all power lines. The Occupational Safety

Feb 10, 2026

IEC Phase to Phase Clearance Standards | PDF | High Voltage

It lists clearance distances for indoor and outdoor electrical installations at different voltage levels from phase to earth, phase to

Apr 02, 2026

Design requirements and standards for low voltage distribution boxes

You must make safety your top priority when working with low voltage distribution boxes. Design requirements help you

Jan 08, 2026

NSI 27 National Safety Instruction and Guidance

A distance of 300mm shall also be maintained from that part of the insulators supporting exposed unearthed High Voltage

Dec 23, 2025

Living and Working Around HIGH-VOLTAGE POWER LINES

SAFETY NOTES The National Electrical Safety Code specifies a minimum safe clearance distance for each level of electric

Mar 15, 2026

Electrical Safety Standards for LV/MV/HV (Part-1)

Minimum Approach Distance for Authorized Person This is the minimum distance that must be maintained by a

Mar 07, 2026

NEC Article 110.34: Electrical Room "Basics"

Minimum clearances are established for work spaces in front of high voltage - electrical equipment such as switchboards, control

Aug 07, 2025

EMF Safe Distance From Power Lines Calculator

Calculate electromagnetic field exposure from high-voltage power lines. Get safety distance recommendations based on Building

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