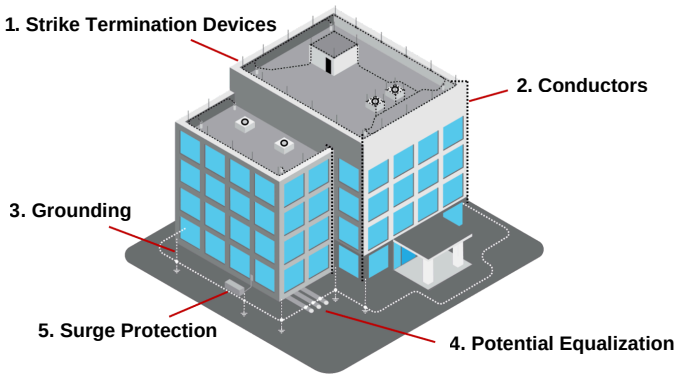
LPI LIGHTNING PROTECTION INSTITUTE

Lightning Protection Systems

A lightning strike is intercepted by the strike termination device. The energy from the lightning strike is dispersed through the conductors and is directed to the grounding components to safeguard the structure and the electronic infrastructure.

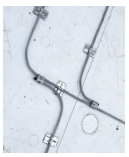


IT'S A SYSTEM.

Lightning protection requires more than a rod and a cable. A lightning protection system consists of **5 key components** that follow national standards and are installed by LPI Certified Contractors.

Strike Terminations

Strike termination devices (Air terminals / Lightning Rods) are the conductive component capable of receiving a lightning strike.



Conductors

Cables connecting the terminals to grounding.

Grounding

The ground electrode is the portion of the system that provides an electrical contact with the earth.

Surge Protection

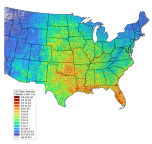
Installed at electrical panels and surge suppressors provided for building electronics.

Potential Equalization

Bonding, the joining of metallic bodies and roofing components to ensure conductivity.

IT'S A PROCESS.

Lightning protection is a coordinated process that relies on a standards-based approach and collaboration among qualified professionals to ensure system integrity and to ensure the safety of people and structures.



Assessment

Evaluate the structure, occupancy, location, exposure, and systems to determine risk.

Architects, Engineers, AHJs or others can perform according to NFPA 780.

Specification

Develop a standards-based/NFPA 780 protection approach appropriate for the building and its systems.

Installation

Use qualified, certified lightning protection professionals to install the system correctly.

Inspection/Certification

Verify the system through 3rd party, independent inspection and maintain records.

Maintenance/Re-Certification

Review the system after roof work, additions, storm events, or changes to the facility.

Re-certification is necessary after 3 years and/or after any additions to the building structure that may change the system.