

Course Name: Grounding & Protection of Communication Sites

Course Overview:

As communication site location expand and increase in number, there is a strong need for getting technicians up to speed on grounding and protection training. This course is dedicated to grounding, bonding, and safety concepts for communications sites.

Course Length: 1 day

Who should attend?

- Field Service Technicians
- Field Engineers
- Managers/ Field Supervisors
- Design Engineers
- Electricians
- Managers or Supervisors

You will learn:

- Review of DC and AC electrical characteristics
- Grounding and bonding procedures
- Battery and generator maintenance
- Lighting precautions
- Electrical safety issues and practices

Prerequisites: None

Course Fees:

- 1-day course at your location: \$12,375 for up to 10 attendees

Customizable Course: Yes

Course Content:

Communications Site

- Equipment
- Batteries
- Generators
- Transfer switches
- Towers
- Circuit breaker panels
- Ground plane

Overview of DC and AC Electricity

- Current flow



- Voltage
- Resistance
- Ohm's Law
- Power storage
- Single-phase AC
- Three-phase AC
- Power generation
- Chassis ground
- Earth ground

Grounding and Bonding

- Ground wiring
 - Gauge
 - Distance
- Ground plane
- Bonding
- Lightning protection
- Over voltage protection
- T1 grounding

Safety

- Electrostatic strap
- Gloves
- Goggles
- Apron

