

RF Site Safety Utility Workers (29 CFR 1910.268)

Course Length 2 – 4 Hours

Prerequisites None.

Course Objectives Required Training for employees and sub-contractors in the utility industry. Subjects include regulations and RF standards, types of radiation and recognition of antenna systems, Maximum Permissible Exposure (MPE) at RF sites, hazard assessment, and Personal Protective equipment. An optional review exam (10 questions) will be given at the end of class, with a completion certificate in compliance with OSHA reporting requirements in 29 CFR1910.268. *This course can be customized to meet specific requirements*

COURSE OUTLINE

RF Site Safety and the Law

- 1) Introduction
- 2) OSHA 29CFR 1910 & 1926
- 3) ANSI, FCC, OSHA Standards
- 4) FCC Enforcement
- 5) Federal vs. State Regulations
- 6) Training and Record keeping

Types of Radiation

- 1) Ionizing Radiation Transmitters
- 2) Non-ionizing radiation
- 3) Near field vs. Far field
- 4) Wavelength
- 5) Radio Spectrum

Radio Antenna Systems

- 1) How Antennas work
- 2) Antenna Types
- 3) Antenna Gain & Bandwidth
- 4) Transmission Lines
- 5) Grounding overview

Maximum Permissible Exposure

- 1) MPE Defined
- 2) Exposure Limit
- 3) Controlled vs. Uncontrolled
- 4) The 5% Rule
- 5) Contact Currents

Hazard Assessment

- 1) Site Assessment
- 2) Site Inspection & Security
- 3) Multi-user Sites
- 4) Posting Requirements
- 5) Lock out – Tag out

Personal Protective Equipment - PPE

- 1) General Requirements
- 2) RF Monitors
- 3) Eye and Hearing Protection
- 4) RF Suits

For more information or a custom quote