



60TH ANNUAL MICROWAVE POWER SYMPOSIUM

The Premier Industry-Wide Microwave Power Event



Instructor: Dr. Scott Best
CTO, SiberSci, LLC

SHORT COURSE I: RF & Microwave Safety Class

RF and Microwave Safety is commonly overlooked in both industry and government operations, so this Class is designed to educate technicians, engineers, managers, and business owners on the personnel hazards that can be encountered with systems using RF and Microwave Processing equipment. The objective of the class is to present sufficient information, so everyone understands the risks involved, and how to work safely in this environment.

The class begins by explaining RF and Microwave radiation from antennas and equipment assemblies. Next, you will learn the difference between ionizing and non-ionizing radiation, how the human body is affected by them, and the basics of the FCC regulations for non-ionizing radiation. Finally, you will learn how to interpret the FCC regulations for non-ionizing radiation to work safely in an environment where you may be exposed to RF and Microwave radiation, which is the ultimate objective of this class. Course Outline:

Biology of RF and Microwave Exposure

- Ionizing radiation versus non-ionizing radiation.
- What parameters are important in determining your exposure?
- Biological effects of excessive exposure to RF and Microwave energy.

RF and Microwave Safety Regulations and Standards

- FCC regulations.
- OSHA regulations.

Sources of RF and Microwave Energy

- Solid-State.
- Vacuum Electronics.

Safe Work Practices

- Using distance and time averaging while working in environments where RF and Microwave radiation exist.
- Avoiding eye damage from waveguide leaks.

RF and Microwave Personal Monitors

- Options, features, use, and limitations.
- Making effective use of RF and Microwave personal monitors.

RF and Microwave Safety class summary.

- Discussion, questions, and answers.

Tuesday, June 16, 2026

8:00am-12:00pm

Westin New Orleans

Registration Fees

IMPI Members: \$275

Non-Members: \$325

Register at: <https://impi.org/events/symposium/>