EME SAFETY, LLC

Radio Frequency Safety Officer Course

EDUCATION CREDITS

Professional Development Hour (PDH) credits are supplied for continuing education requirements for licensure or certification.

ONLINE HOSTING

Provided by a LMS (Learning Management System) that tracks users participation, progress, and performance.

SCORM COMPLIANT

EME Safety, LLC utilizes software that complies with the latest Shareable Content Object Reference Model (SCORM) standard for LMS hosting.

TRAIN YOUR WAY

From your desktop or mobile device, this course is designed to allow you to receive the training whenever or wherever it's convenient for you.

IEEE CREDENTIALING PROGRAM

We are now offering a Radio Frequency Safety Officer course online. Learn how to qualify as an RFSO from this 30-hour online course. Earn PDH credits upon successful completion of this course. EME Safety, LLC is an approved provider of IEEE PDH certificates.

- Independent review by trusted experts
- Over three decades of teaching experience.
- Membership in key organizations involved in Non-ionizing radiation safety.
- Experienced in all forms of training for multiple industries.
- Authors and suppliers to a wide range of students and backgrounds.

EME Safety has been busy during the pandemic looking at ways to update and expand our RFSO training. Not content to continue the same way as in the past, we knew that we could improve our common 3-day class by incorporating more information than we could present in the confines of those three days. With travel presenting new challenges, it seemed like online training offered new advantages IF it could be done right. So, two years later we are ready to offer a new and expanded class that provides more information and education for our students. The goal is, and has always been, for students to be able to operate as an effective RFSO. If you do not need to call on us again for assistance, then we consider that a victory.

Of course, we still want to be sociable, and you are always welcome to contact us for more information about your training needs, or any questions about RF Safety that you might have.

On the next page is an outline of our RFSO course as it exists today. This course is focused on US requirements. We do cover international requirements and we do introduce other standards for HERO, HERF and HERP requirements but do not go in depth to those types of testing like we might for military only clients. The course is meant to give an overall education that one can build on in the future since there are so many uses of RF energy in so many industries.

INTRODUCTION

What are the duties of an RFSO? What information should be learned in a course designed to educate persons on this important topic?

BASIC TERMS AND CONCEPTS

How do we get from the International System of Units to V/m? Introduction to Voltage, Current, Resistance, and Power. Relationship between Electric and Magnetic constants and the speed of light.

ELECTROMAGNETIC RADIATION

The EM Spectrum, Ionizing and Non-ionizing spectrums and the inverse square law of radiation. Significant sources of Non-ionizing radiation.

RADIO FREQUENCIES

Specific Absorption Rate (SAR), free space impedance, relationships between voltages, currents, and power.

ANTENNAS

Basic concepts, terms, types of antennas, and field areas around antennas. Antenna beamwidths, patterns, and typical applications.

BIOLOGICAL EFFECTS

Define the effects that vary by frequency and depth of penetration. Learn about thermal and non-thermal effects. Relate the effects to Standards.

RF SAFETY STANDARDS

Learn about major standards and their basis for limits. Learn about whole-body and partial-body limits and specific FCC regulatory requirements.

RF SAFETY PROGRAMS

Learn about the elements of an effective RF safety program and the pending new IEEE C95.7 standard. Learn about engineering and administrative controls, documentation, and record-keeping.

RF MEASUREMENTS

Learn about types of survey equipment available and when to use them. Common sources and magnitude of measurement errors, measurement types, and techniques. Tips to improve your accuracy.

RF SITE SURVEYS

Learn about signage, barriers, and safety at transmitter locations. Learn about new FCC signage and OSHA fall protection requirements.

RF COMPUTATIONAL ASSESSMENTS

Learn about the types of calculations, from manual to software-based, and when to use them—also using a combination of measurements and calculations in survey reports.

COMMUNICATION OF HEALTH AND SAFETY ISSUES

Identifying and dealing with cognitive biases, using effective communication practices, and coping with common misunderstandings of RF health and safety issues.

STANDARDS

The new C95.7 standard lists important information that should be included in advanced safety training and we provide that.

ADDITIONAL INFORMATION

Receive a simple but effective spreadsheet calculator for estimating field levels around common antennas, supplied as part of the course.

RF SAFETY SOLUTIONS

The reason our clients take this course. Learn what you need to know as an RFSO, even if you don't plan on making measurements yourself.

For more information on any of our products or services please visit us on the Web at: www.emesafety.com

SERVICES AVAILABLE

EME Surveys
Custom Training
In-person Training

EME Safety, LLC
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Chandler, AZ 85249
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info@emesafety.com
www.emesafety.com

Additional Information

The estimated time to complete the course is 30 hours. The IEEE credentials are based on that time.

Cost of the course: $2,000.00

How to Register for the EME Safety RFSO Course

Send your contact information to info@emesafety.com :

Name: _____

E-mail: _____

Contact Phone: _____

Company: _____

Address: _____

City, State, ZIP: _____

We will contact you to arrange for payment and then you'll be given access to the online course. At the time of completion, you'll be asked to evaluate the course and your information will be forwarded to the IEEE for certificate issuance.

Or simply email us at info@emesafety.com and we'll handle it all with you over the phone.

EME Safety, LLC

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