



# Radio Frequency Safety Officer Training Course

## Evaluation • Effects • Standards

Designed to train professionals in non-ionizing radiation evaluation and management techniques. Limited class size makes this an ideal hands-on experience.

## Who Should Attend

- Industrial Hygienists
- Safety Professionals
- Engineers
- Insurance Professionals
- Managers in Industry, Government, and Service Organizations

## Focus

- Determining compliance with major standards
- Evaluating the risk potential of various sources of non-ionizing radiation
- Setting up a non-ionizing radiation safety program

## Foundation

We'll get you ready to conduct and document a survey with a solid background in electromagnetic radiation characteristics, health effects, standards, and instrument design and limitation.

## A Hands-On Experience

With ideas mastered, you'll be ready for practical instruction. We'll give you a full day to test your knowledge using a broad range of instruments. And you'll have the personal attention that's only possible in a small group.

### PREREQUISITE

A professional background in science, engineering, or environmental health and safety is highly desirable.

# Radio Frequency Safety Officer Training Course

### DAY ONE

- Introduction
- Theory
- Instrument Overview
- Detector Designs

### DAY TWO

- Effects and Definitions
- Standards Overview
- Antenna Designs and Calculations
- Introduction to Surveys

### DAY THREE

- Performing Surveys
- Documenting a Safety Program
- Course Review

### CREDITS

The American Board of Industrial Hygiene (ABIH) has approved this course for three certification (CM) points.

## Why You Should Attend

Recent media interest in very low level sources of non-ionizing radiation – cellular phones, VDT's, appliances, power lines – has reminded us to focus on the possibility of hazardous conditions in occupational areas.

Tens of thousands of occupational situations involve potentially hazardous exposure to non-ionizing radiation – exposure that could be at, near, or above recognized safety standards. Industrial uses outside the electronics industry and the military continue to grow. RF heat sealers and welders, induction heaters, microwave dryers, and semiconductor processing equipment join communications and radar systems in their use of high power electromagnetic sources.

We must manage these sources with knowledge and responsibility.

## What You Will Learn

When you complete this training course, you will know how to evaluate and manage potential sources of non-ionizing radiation.

The new IEEE C95.1-2005/ANSI C95.1-1992 Standard, Canada's Safety Code 6, and the ICNIRP's 1998 Guidelines are the basis of this course which covers health effects from exposure to non-ionizing radiation from sources operating from 3 kHz to 300 GHz. It provides a broad background in the characteristics and generation of electromagnetic radiation by a variety of sources. Instrument designs, applications, and limitations are discussed in detail.

Survey techniques, calculations, and documentation are emphasized. Several types of emitters provide practical hand-on experience operating a broad variety of instruments.

In a small work-group setting, you will make electric field and magnetic field measurements. Sources are made available to provide a realistic measurement experience.

# Registration

Fill out the form on the next page, and send to us:

**BY MAIL** (up to two weeks prior to start of class) to:

Narda Seminar Center

435 Moreland Road

Hauppauge, NY 11788

You will receive confirmation by return mail.

**BY E-MAIL:** [nardaseminar@L-3COM.com](mailto:nardaseminar@L-3COM.com)

**BY FAX:** (631) 231-1711

**BY TELEPHONE:** (631) 231-1700 Ext. 242

## CONFIRMATION PACKET

Once your registration is confirmed, you will receive a detailed packet on the course-site hotel and airport-to-hotel transportation.

## Cost

The registration fee for this includes all instructional materials and lunch each day. The price for individuals is \$1250.00. Discounts are available for federal and state employees, and for groups of five or more. Hotel discounts are available to everyone. Payment can be made with Master-Card, Visa, American Express, company check, or purchase order.

## HOTEL ACCOMMODATIONS

Hotel reservations should be made directly with the Hilton Garden Inn, Phoenix North 602.306.2323.

For a preferred rate, be sure to mention that you are attending a Narda Training Course.

## REFUND POLICY

100% Up to 2 weeks  
prior to class

50% Up to 1 week  
prior to class

Narda Safety Test Solutions Products are designed and manufactured by Narda, an L-3 Communications company, in their Hauppauge, NY and Pfullingen, Germany facilities.



# Registration Form

**YES, Please sign me up for the three-day Survey Training Course checked below**

**Session O120 - Phoenix, AZ - Nov. 16-18, 2010**

Hilton Garden Inn, Phoenix North 602.306.2323

3838 E. Van Buren St., Phoenix, AZ 85008

Call Hotel for Room Reservations.

## Mailing Address

NAME \_\_\_\_\_

TITLE \_\_\_\_\_

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY/STATE/ZIP \_\_\_\_\_

TELEPHONE (        ) \_\_\_\_\_

FAX                (        ) \_\_\_\_\_

E-MAIL \_\_\_\_\_

## Payment Method

My Company Check/Money Order made out to L-3 Communications – Narda is enclosed.

My P.O.# is \_\_\_\_\_

Bill my  VISA     MasterCard     AmEx

ACCOUNT # \_\_\_\_\_

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
EXP. DATE

## Please send me information on

- Future 3-Day Courses
- 1-Day Communication Seminars (various cities)
- 1-Day Industrial Seminars (various cities)
- Custom In-House Courses

## Send this Registration Card to:

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FAX 631-231-1711 • TEL 631-231-1700 Ext.242

## Here's What Attendees Say...

"Great course with highest caliber personnel. Informed me thoroughly on items of interest... specifically helpful to me in developing an RF RADIATION SAFETY PROGRAM...Thanks to all, fantastic course of instruction..."

Bill Fairing  
Martin Marietta, Norristown, PA

"The information in the text is a valuable addition to my reference library..."

Gregory King  
Merck & Co., Rahway, NJ

"A very good introductory course...Bob Johnson [instructor] is an excellent ambassador for Narda..."

Eugene Russell  
EG & G, Las Vegas, NV

"Very helpful, and gave me much to consider in future measurements..."

Thomas White  
Varian, Beverly, MA

### Past attendees are from these organizations:

AT & T Communications	Norden
CNA Insurance	U.S. Navy
State of Florida	GEC-Marconi
Satellite Transmissions	Martin Marietta
Pactel Cellular	CIBA-GEIGY
Callanan Co.	GTE Laboratories
EG & G	Varian
Merck & Co.	MA/COM
NOAA/National Weather Service	Federal Communications Commission

Narda knows the potential danger of non-ionizing radiation and is continuously creating and refining instruments to gather the significant data essential for environmental and occupational safety. With accuracy as a benchmark and sensitive to corporate liability issues, the Company has developed a comprehensive approach to non-ionizing radiation safety in the workplace.

Narda products account for more than 95% of the world's patents in non-ionizing radiation safety equipment. The preferred choice of knowledgeable individuals, Narda equipment is relied on for accurate measurements in any signal environment.



**narda**  
**Safety Test Solutions®**

an **L3** communications company

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