



PIBA Program Events Committee Presents:

# Radiation Safety Officer Training

## 40 Hour Certification Course

<b>Date:</b>	Course runs five days from March 7 <sup>th</sup> through 13 <sup>th</sup> (weekdays only) from 8:00am to 5:00pm. Complete training lasts 40 hours.
<b>Location:</b>	IBM, 1001 E. Hillsdale Blvd. Suite 400, Foster City, CA 94404.
<b>Cost:</b>	<b>Regular Registration Rates: (Before February 24<sup>th</sup>)</b> PIBA members - \$695.00 Non-Members - \$1,095.00 Gov/Edu - \$895.00 <b>Late Registration Rates (after February 24<sup>th</sup>)</b> PIBA members - \$895.00 Non-Members - \$1,295.00 Gov/Edu - \$1,095.00
<b>Registration:</b>	To register, please register securely online at <a href="http://piba.org/Events_registration.html">http://piba.org/Events_registration.html</a> or complete the form below and send to the PIBA office. Please register by February 24, 2012. If you have any questions, email <a href="mailto:piba@piba.org">piba@piba.org</a> .

### Event Overview:

This course is designed for persons who want to become a Radiation Safety Officer at a university, biotechnology center, or industrial concern. In addition, this course is applicable to laboratory staff scientists who require radiation safety training to qualify as a “user” of radionuclides, biotechnology scientists who use radionuclide tracers, scientists in the radiopharmaceutical industry (production and R&D) and others.

### Training Course Instructor – George Anastas:

George Anastas has been providing radiation safety and occupational safety training and consultation in the Bay Area since 1990. He is a Certified Health Physicist, a Fellow of the Health Physics Society, a Fellow of the Australasian Radiation Protection Society, a Professional Nuclear Engineer and a Diplomate of the American Academy of Environmental Engineers. He is also a Past-President of the Health Physics Society. He has many years of experience in radiation safety, industrial hygiene, occupational safety and nuclear safety with industry, engineering consulting organizations, California State University, the University of New Mexico, the State of New York and San Diego Gas and Electric. He served as the EG&G Senior Executive Consultant to the National Institute of Occupational Health and Safety (NIOSH) in support of NIOSH efforts relating to atomic workers’ compensation. He has published extensively and presented scientific treatises on all of his areas of expertise focusing particularly on risk assessment and risk amelioration.

### Training Course Schedule – 40 Hours:

The RSO training course will take place over 5 days for a total of 40 hours.

Wednesday, March 7, 8:00am – 5:00pm

Thursday, March 8, 8:00am – 5:00pm

Friday, March 9, 8:00am – 5:00pm

Saturday and Sunday – break

Monday, March 12, 8:00am – 5:00pm

Tuesday, March 13, 8:00am – 5:00pm

### PIBA Members, take benefit from this lowered price point!

PIBA events are created and maintained by our Events Committee, composed and attended by active volunteers. PIBA schedules timely and cost-efficient seminars, with an aggressive cost savings for PIBA Members. If your company would be interested in signing up or renewing membership with PIBA, please contact the PIBA office at 408-337-0902 or [piba@piba.org](mailto:piba@piba.org).

**Course Objective:**

This is a comprehensive course for the person who has been assigned the duties of Radiation Safety Officer. The course will be focused upon California requirements, but will feature both Federal and State regulations. This 40-hour Radiation Safety Officer (RSO) Course is designed to provide the technical and practical information needed to prepare a person to be an effective Radiation Safety Officer (RSO) or an Alternate RSO. It will also be useful as review for current RSOs and for anyone who works with radioactive materials.

**Topics to be covered in this course include:**

- Radiation fundamentals: nuclear and atomic physics: radioactive decay: units:
- Radiation Safety Committees: organization, requirements: records: accountability
- Radioactive materials licensing: wipe tests, inventory and good practices
- X-ray machine exposures: calculation of exposures
- Gamma and X-ray shielding calculations
- Biological effects of radiation
- Personnel Dosimetry: Bioassay
- Radiation detection instruments
- Sealed source leak tests
- Shipment and receipt of radioactive materials
- Emergency procedures
- Radiation protection programs; program reviews
- RSO responsibilities
- Record keeping
- Preparing for inspections
- Radiation safety surveys
- Training
- Security
- Records/documentation
- Inspections
- Radiation sources and equipment
- Instrument calibration
- Radiation and contamination surveys
- Waste handling and storage: decay in storage

**Additional Information:**

Bring your calculators!

Participants are responsible for their own meals during the training.

Please contact the PIBA office with any course questions: [piba@piba.org](mailto:piba@piba.org)



**Registration Form**  
**RADIATION SAFETY OFFICER TRAINING**

**March 7-13, 2012**

**Pre-Registration Deadline: February 24, 2012.**

**This is required from all attendees.**

Please type or print, and complete all items.

Fax this form to PIBA **408-521-9191**, or Mail to PIBA, 16795 Lark Ave., Suite 104, Los Gatos, CA 95032.

Name		
Company		
Address		
City	State	Zip code
Phone	Fax	E-mail address
Visa/MasterCard/AMEX/Discover or Check enclosed (please circle one)		Credit card expiration date
Credit card billing address, if different from company address		
Signature (your signature authorizes PIBA to process your credit card and <i>indicates you have read the text below – this is required regardless of membership or credit card processing.</i> Thank you.)		

**Regular Registration: Form must be received by February 24, 2012:**

Member \$695.00     Non-Member \$1,095.00     Education/Non-Profit/Government \$895.00

**Late or On-Site Registration: Form received after February 24, 2012:**

Member \$895.00     Non-Member \$1,295.00     Education/Non-Profit/Government \$1,095.00

PIBA accepts Visa, Master Card, American Express and Discover credit cards, money orders or checks (made out to PIBA). Cancellations will be refunded up to 5 business days prior to the registration deadline. There is a \$150.00 service charge on cancellations for this event.

**Please register early for your maximum value!**