

**Registration Form PLEASE PRINT**

Attendee Name: \_\_\_\_\_

Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

**Registration Course Fee:**

\$2300 General     \$1800 State/Local/Tribal

**Late Registration Fee (received after Aug. 24)**

\$2500 General     \$2000 State/Local/Tribal

**Payment Method:**

- Purchase order (government agencies only)
- Check (payable TERA, include Attendee name in memo)
- Credit Card:     Visa     MasterCard     American Express

Card# \_\_\_\_\_

Expiration date: \_\_\_\_\_ Security No. \_\_\_\_\_

Name on card: \_\_\_\_\_

Signature: \_\_\_\_\_

Billing Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

or same as above

Phone: \_\_\_\_\_

Please see TERA's cancellation and substitution policy at [www.TERA.org](http://www.TERA.org)

I've read and understand TERA's cancellation policy.

Fax to: 513-964-9472, or email to [vayers@tera.org](mailto:vayers@tera.org), or  
Mail to: TERA

1250 Ohio Pike, STE 197  
Cincinnati, Ohio 45102

**Ask us about  
Customizable Courses  
at your site or ours!**

**Our Dose-Response Assessment course is available for private, on-site training.**

The course can also be presented in a 3-day or 4-day format.

We will work with you to select the most relevant topics for your group from our full course outline.

**For more information contact:**

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or

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[www.TERA.org](http://www.TERA.org)

**Toxicology Excellence for Risk Assessment**

**This course endorsed by:**



**NEXT COURSE OFFERED**  
Cincinnati, Ohio  
**September 24—28, 2018**



TOXICOLOGY EXCELLENCE FOR RISK ASSESSMENT

**RISK ASSESSMENT from  
0 to 95% Confidence in 5 days!**



**Dose-Response  
Assessment  
Bootcamp Course**

The accelerated, intensive hands-on training in  
**HAZARD CHARACTERIZATION**  
and  
**DOSE-RESPONSE ASSESSMENT**  
for which TERA  
is known worldwide.

## 5-day Course Information

### Who should attend?

- Risk assessors and toxicologists who conduct, write, and/or review chemical assessments
- Risk managers or policymakers who use the results of chemical assessments and want to fully understand the processes involved in risk development.

### Prerequisites

- Basic understanding of toxicology
- Interest in developing skills in human health risk assessment.

### What you should bring

- Laptop
- Calculator

### What you will learn

This course is a 5-day intensive hands-on training in hazard characterization and dose-response assessment. Both beginners and expert toxicological risk assessors will learn advanced methods, and enhance their understanding and skills in the basics. Course lectures will be supplemented with daily hands-on application exercises.

### There will be homework

Make sure to reserve time each evening for the homework exercises.

Upon completion of the course, participants will be able to derive and evaluate risk values and supporting documentation for both non-cancer and cancer risk assessments.

The course is held Monday through Friday from 9:00am to 5:00pm. Although class usually ends early on Friday.

## Course Topics

### Non-Cancer and Cancer Risk Assessment Methods

- Critically analyze effect data
- Apply frameworks for evaluating mode of action (MOA) & human relevance
- Understand & apply toxicokinetic data in evaluating MOA & developing risk values
- Synthesize data for hazard characterization and critical effect identification
- Learn latest technologies in risk assessment

### Dosimetric Adjustment Methods in Dose-Response

- Develop interspecies oral dose adjustments, conversions for cancer unit risk/slope factor and inhalation exposures, and calculate human equivalent concentrations (HECs) for particles and vapors
- Understand uses of PBPK modeling in risk assessment and issues for its application

### Benchmark Dose (BMD) Modeling and Application in Risk Assessment

- Hands-on experience using BMD modeling for all models in EPA software (i.e., dichotomous continuous, cancer, nested)
- Apply BMD modeling, choose models & parameters, select data & run models, and select appropriate BMD as point of departure in a human health assessment

### Principles for Application of Uncertainty Factors & Chemical Specific Adjustment Factors (CSAFs)

- Use of uncertainty factors by regulatory groups, use of data to support values other than defaults

- Develop and use CSAFs, as used by IPCS, using mechanistic & toxicokinetic data to replace defaults

### Comprehensive Risk Assessment Practice with Peer Review

- Develop, present and review comprehensive non-cancer and cancer assessment over the course of the week



### CM/CEU points available

**5** Continuing Maintenance (CM) points are available from the American Board of Industrial Hygienists (ABIH)

**4** Continuing Education Units (CEU) are available from the National Environmental Health Association (NEHA)

This course is endorsed by:

- The Society of Toxicology (SOT)
- The Society for Risk Analysis (SRA)