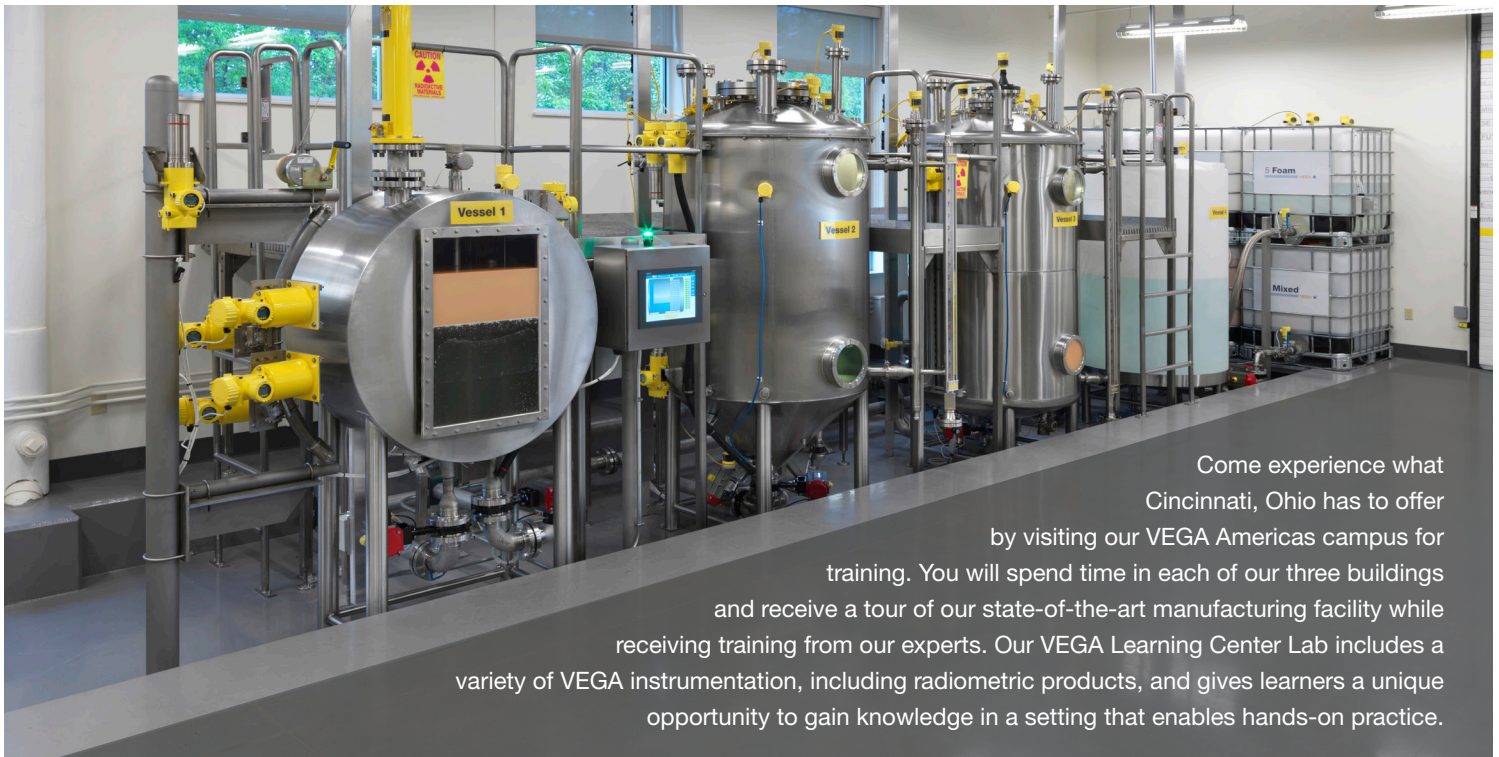


Course Catalog

Introduction

VEGA Americas understands that training is an essential part of developing a productive workforce that has the skills and knowledge needed for the field. VEGA's Learning and Development Center offers a variety of training solutions that combine hands-on experience and in-depth instruction to meet your company's training and development needs.



Come experience what Cincinnati, Ohio has to offer by visiting our VEGA Americas campus for training. You will spend time in each of our three buildings and receive a tour of our state-of-the-art manufacturing facility while receiving training from our experts. Our VEGA Learning Center Lab includes a variety of VEGA instrumentation, including radiometric products, and gives learners a unique opportunity to gain knowledge in a setting that enables hands-on practice.

Dates of trainings held at Cincinnati's campus can be viewed on our website at <https://www.vega.com/en-us/services/training>.

Can't make it to VEGA's campus in Cincinnati? VEGA Americas has two additional offices that offer training in Houston, TX and Newport Beach, CA. We also provide various training courses virtually and at your site. Attendees walk away with the same quality of training and understanding of VEGA instrumentation. If you can't come to us, we bring the classroom to you.

If your needs differ from the courses listed, VEGA Americas offers customized training to best meet your needs. If you are interested in discussing customized training options further, or you would like to schedule a training to be held at your facility or at the Houston or California office, please contact our Training Coordinator via phone or email.

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Radiation Safety Officer (RSO) Training

This 40-hour training class is designed for those who intend to become Radiation Safety Officers and any who desire the highest level of training the industry has to offer. Based on NUREG 1556, this course meets all of the requirements of the NRC and Agreement States for RSO training. Upon successful completion of the course, attendees receive a certificate to use for application to the appropriate licensing agency.

Who should attend?:

Any person who plans to become a Radiation Safety Officer

Objectives:

At the end of this course, attendees are knowledgeable of all radiation safety aspects as defined in NUREG 1556, Volume 4, Appendix D

Methodology:

Theory: Instructor-led modules with a variety of content including videos, live demonstrations, and application of information discussed through class activities

Practical: Supervised hands-on experience of routine maintenance procedures, practical application of real-life emergency procedures

Max. participants: 20

Topics:

- Basic Radiation Theory
- Measurement and Monitoring Techniques
- Biological Effects of Radiation
- Radiation Safety and Protection
- Licensing Rules and Regulations
- Tests Performed on Devices
- Emergency Procedures
- Source Decommissioning
- Security
- Department of Transportation Regulations

In-Person Option

A written examination is given at the end of the class as well as a Certificate of Completion for each attendee.

Location	Cost
VEGA Americas' Cincinnati Office	\$2,400 per person

Prerequisites:

- Ability to use a scientific calculator

Virtual Option

An online examination is given at the end of the class as well as a Certificate of Completion for each attendee.

Location	Cost
Zoom session allows for this training to be attended from most locations	\$1,600 per person

Prerequisites:

- Access to a radiation survey meter
- Ability to use a scientific calculator
- Basic computer skills
- Access to a computer with a webcam and internet access for the duration of the training
- Ability to download Zoom

Radiation Safety Officer (RSO) Review Training

This 16-hour training class is designed for those who have previously taken a 40-hour Radiation Safety Officer course. Based on NUREG 1556, this course meets all of the requirements of the NRC and Agreement States for RSO training. A review class is recommended every two to three years.

Who should attend?:

Any person who has previously completed a Radiation Safety Officer course and wants to stay current on radiation protection standards.

Objectives:

At the end of this course, attendees are knowledgeable of all radiation safety aspects as defined in NUREG 1556, Volume 4, Appendix D

Methodology:

Theory: Instructor-led modules with a variety of content including videos, live demonstrations, and application of information discussed through class activities

Practical: Supervised hands-on experience of routine maintenance procedures, practical application of real-life emergency procedures

Max. participants: 20

Topics:

- Basic Radiation Theory
- Measurement and Monitoring Techniques
- Biological Effects of Radiation
- Radiation Safety and Protection
- Licensing Rules and Regulations
- Tests Performed on Devices
- Emergency Procedures
- Source Decommissioning
- Security
- Department of Transportation Regulations

In-Person Option

A written examination is given at the end of the class as well as a Certificate of Completion for each attendee.

Location	Cost
VEGA Americas' Cincinnati Office	\$800 per person

Prerequisites:

- Ability to use a scientific calculator
- Previously completed a full Radiation Safety Officer training

Virtual Option

An online examination is given at the end of the class as well as a Certificate of Completion for each attendee.

Location	Cost
Zoom session allows for this training to be attended from most locations	\$500 per person

Prerequisites:

- Access to a radiation survey meter
- Ability to use a scientific calculator
- Basic computer skills
- Access to a computer with a webcam and internet access for the duration of the training
- Ability to download Zoom

Radiation Safety for Gauge Users Training

This 8-hour training class is designed to give operation and maintenance personnel the knowledge they need to work safely with and around radiometric gauges. Based on NUREG 1556, this course meets all of the requirements of the NRC and Agreement States for Authorized Users training.

Who should attend?:

Any person working with and around radiometric gauges.

Objectives:

At the end of this course, attendees are knowledgeable of all radiation safety aspects as defined in NUREG 1556, Volume 4, Appendix D

Max. participants: 10

Topics:

- Basic Radiation Theory
- Health Risks
- The Use of Radiation Detection Instruments
- Standard Procedures
- Emergency Guidelines

In-Person Option

A written examination is given at the end of the class as well as a Certificate of Completion for each attendee.

Location	Cost
Customer's site	\$1,900 for up to 10 people from your company. <i>Cost of instructor's travel expenses will be added if training is held at customer's site.</i>

Methodology:

Theory: Instructor-led modules with a variety of content including videos, detailed review of radiation license, and application of information discussed through class activities

Practical: Supervised hands-on experience of routine maintenance procedures

Prerequisites:

- Basic knowledge of instrumentation

Virtual Option

An online examination is given at the end of the class as well as a Certificate of Completion for each attendee.

Location	Cost
Zoom session allows for this training to be attended from most locations	\$1,200 for up to 10 people from your company.

Methodology:

Theory: Instructor-led modules with a variety of content including videos, lecture, and application of information through class activities and discussion

Practical: Supervised hands-on experience of routine maintenance procedures

Prerequisites:

- Basic knowledge of instrumentation
- Access to a computer with a webcam and internet access for the duration of the training
- Ability to download Zoom

DTM (PACTware) Training, Lab-based

This 16-hour training class is held in our state-of-the-art instrumentation lab and instructs on the use of PACTware and VEGA Device Type Managers (DTMs) to setup, troubleshoot, and calibrate VEGA instruments. This course is primarily hands-on and provides advanced exercises that simulate real-world examples.

Who should attend?:

Any person working with VEGA instrumentation that would like to learn more about the setup and maintenance of VEGA instruments using VEGA DTMs within PACTware.

Objectives:

At the end of this course, attendees are able to configure a 4 ... 20 mA VEGA radar sensor, setup 0% and 100% points, configure a PLICSCOM display, setup the failure mode, optimize the sensor for specific applications, and suppress false signals.

Methodology:

Theory: Instructor-led modules with a variety of content including lecture, live demonstrations, and application of information discussed through class activities and discussions

Practical: Supervised hands-on experience with setup, configuration, and calibration of VEGA sensors in our state-of-the-art training lab.

Max. participants: 12

Topics:

- Installation
- Wiring Options and Limitations
- Setup
- Configuration
- Troubleshooting
- Service Options
- Data Collection Options
- Failure Mode
- False Signal Suppression

Location	Cost
VEGA Americas' Cincinnati office	\$1,000 per person

Prerequisites:

- Basic knowledge of instrumentation
- Basic computer skills

DTM (PACTware) Training

This 8-hour training class introduces PACTware and VEGA's Device Type Managers (DTMs).

Who should attend?:

Any person working with VEGA instrumentation that would like to learn more about the setup and maintenance of VEGA instruments using VEGA DTMs within PACTware.

Objectives:

At the end of this course, attendees are able to configure a 4 ... 20 mA VEGA radar sensor, setup 0% and 100% points, configure a PLICSCOM display, setup the failure mode, optimize the sensor for specific applications, and suppress false signals.

Topics:

- Installation
- Setup
- Configuration
- Service Options
- Data Collection Options
- False Signal Suppression

In-Person Option

In-depth instruction and basic hands-on exercises instruct on the use of PACTware and DTMs to setup, troubleshoot, and calibrate VEGA instruments.

Location	Max. participants	Cost
VEGA Americas' Cincinnati office or at Customer's site	10	\$1,900 for up to 10 people from your company. <i>Cost of instructor's travel expenses will be added if training is held at customer's site.</i>

Methodology:

Theory: Instructor-led modules with a variety of content including lecture, live demonstrations, and application of information discussed through class activities and discussions

Practical: Supervised hands-on experience with setup, configuration, and calibration of VEGA radar sensors.

Prerequisites:

- Basic knowledge of instrumentation
- Basic computer skills

Virtual Option

In-depth instruction and live demonstrations instruct on the use of PACTware and DTMs to setup, troubleshoot, and calibrate VEGA instruments.

Location	Max. participants	Cost
Zoom session allows for this training to be attended from most locations	12	\$299 per person

Methodology:

Theory: Instructor-led modules with a variety of content including lecture, live demonstrations, and application of information through class discussions

Prerequisites:

- Basic knowledge of instrumentation
- Basic computer skills
- Access to a computer with a webcam and internet access for the duration of the training
- Ability to download Zoom

Radiometric Measurements for Level & Density

This 16-hour training class introduces radiometric measurements for level and density applications. In-depth instruction and hands-on exercises instruct on the setup, calibration, and linearization of VEGA radiometric instruments.

Who should attend?:

Any person working with the setup or maintenance of radiometric measurement devices in level and / or density applications

Objectives:

At the end of this course, attendees are able to describe how a radiometric measurement is made for level and density applications, configure a VEGA radiometric sensor, identify common error codes.

Methodology:

Theory: Instructor-led modules with a variety of content including lecture, live demonstrations, and application of information discussed through class activities

Practical: Hands-on experience with routine maintenance procedures and calibration of level and density radiometric sensors

Max. participants: 12

Topics:

- Principles of Operation
- ALARA principle
- Setup
- Calibration
- Maintenance and Diagnostic Functions

Location	Cost
VEGA Americas' Cincinnati Office	\$1,000 per person

Prerequisites:

- Basic knowledge of instrumentation
- Basic computer skills

ProTrac Level or Density

This 8-hour training class introduces radiometric measurements for level or density applications. In-depth instruction and hands-on exercises instruct on the setup, calibration, and linearization of VEGA radiometric instruments.

Who should attend?:

Any person working with the setup or maintenance of radiometric measurement devices in level or density applications

Objectives:

At the end of this course, attendees are able to describe how a radiometric measurement is made for level or density applications and configure a VEGA radiometric sensor.

Methodology:

Theory: Instructor-led modules with a variety of content including lecture, live demonstrations, and application of information discussed

Practical: Hands-on experience with routine maintenance procedures and calibration of level or density radiometric sensors

Max. participants: 10

Topics:

- Principles of Operation
- ALARA principle
- Setup
- Calibration
- Maintenance and Diagnostic Functions

Location	Cost
VEGA Americas' Cincinnati office or at Customer's site	\$1,900 for up to 10 people from your company. <i>Cost of instructor's travel expenses will be added if training is held at customer's site.</i>

Prerequisites:

- Basic knowledge of instrumentation
- Basic computer skills

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Looking Forward **VEGA**