VEGA Americas

2027 Course Catalog

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 offers a variety of training solutions that combine hands-on experience and in-depth instruction to meet your company's training and development needs. We also offer professional development hours (PDH) to meet the continuing education needs of licensed engineers*.

VEGA's instructor-led trainings combine a mix of lecture, discussion, live demonstrations, and hands-on experiences, and include:

In-person training at a VEGA site

VEGA has three campus locations across the country, conveniently located in Cincinnati, Ohio; Pasadena, Texas; and Newport Beach, California. VEGA site attendees will receive a variety of VEGA merchandise and catered lunch. Other benefits such as breakfast, dinner, and evening activities may also be included depending on location and training class duration. Cincinnati location visitors will be provided with a tour of our first-class manufacturing facility.

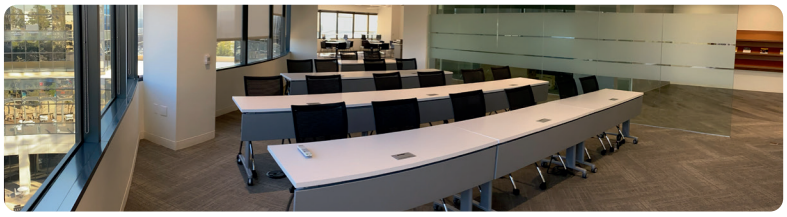
You can find training dates on our website at www.vega.com/trainingus.



Cincinnati, Ohio



Pasadena, Texas



Newport Beach, California

In-person training at a customer site

VEGA understands that some customers may not have the ability to take time off to travel for their training, so we offer a variety of training classes at our customers' sites as well as at other off-site locations**.

For a training quote, please e-mail your request to our training department at ustraining@vega.com or call 513-272-4088.

Virtual training

Using a reliable video-conferencing software, VEGA delivers virtual training with the same commitment to quality as our in-person training. Virtual training varies by class but all virtual classes include a mixture of lecture, discussion, and live demonstration.

**PDH available for most states. Please refer to individual continuing education requirements.*

***The travel expenses for our instructor will be added to the price of the training for trainings held at a customer's site.*

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Basic Startup and Commissioning

Non-contact radar & guided wave radar

This 8-hour training class discusses setup and configuration of VEGA non-contact and guided wave radar devices using PACTware with VEGA's Device Type Managers (DTMs) and the VEGA Tools app.

Max. participants	PDH*
10 (12 for virtual)	6

Who should attend:

Any person working with VEGA radar instrumentation that would like to learn more about the setup and maintenance of VEGA radar devices using common setup tools.

Learning outcomes:

At the end of this course, attendees will be able to:

- List the four golden rules of non-contact radar commissioning
- Define an echo curve and identify how it is used to evaluate performance of a radar instrument
- Configure a 4…20 mA VEGA non-contact radar and guided wave radar sensor
- Optimize a VEGA non-contact radar and guided wave radar sensor for specific applications
- Explain the benefits of a false signal suppression
- Demonstrate the ability to troubleshoot a VEGA instrument using tools such as event memory, echo curve memory, and service recording

Theory:

Instructor-led modules with a variety of content including lecture, live demonstrations, guided hands-on group activities, and application of information through class discussions.

PACTware



View all class dates and register: www.vega.com/trainingus

In-Person

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

Location	Cost
VEGA site	$495 per person
Customer site	Call or e-mail for a quote**

Practical methodology:

Guided hands-on experience with setup, configuration, and calibration of VEGA radar and guided wave radar instruments.

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 radar instruments.

Location	Cost
Microsoft Teams session allows for this training to be attended from most locations	$495 per person

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 access Microsoft Teams

Pricing is valid until October 2027.
*PDH as applicable with state requirements
**Pricing for training at your site, e-mail your request at ustraining@vega.com or call 513-272-4088

Basic Startup and Commissioning

Non-contact radar, pressure, & controllers

This 8-hour training class discusses setup and configuration of VEGA basic series non-contact radar sensors, pressure sensors, and controllers within the VEGA Tools app and PACTware with VEGA Device Type Managers (DTMs).

Max. participants	PDH*
10 (12 for virtual)	6

Who should attend:

Any person working with VEGA radar and pressure instrumentation with or without a controller that would like to learn more about the setup and maintenance of those VEGA devices using common setup tools.

Learning outcomes:

At the end of this course, attendees will be able to:

- List the four golden rules of non-contact radar commissioning
- Define an echo curve and identify how it is used to evaluate performance of a radar instrument
- Configure a 4…20 mA VEGA non-contact radar
- Install, configure, and troubleshoot the VEGABAR 38 pressure transmitter
- Optimize a VEGA sensor for specific applications
- Utilize a controller for flow and pump control
- Explain the benefits of a false signal suppression
- Demonstrate the ability to troubleshoot a VEGA instrument using service recording

Theory:

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

In-Person

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

Location	Cost
VEGA site	$495 per person**
Customer site	Call or email for a quote

Practical methodology:

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

Prerequisites:

- Basic knowledge of instrumentation
- Basic computer skills
- **Attendees must install the VEGA Tools App to their mobile device prior to the class. Attendees must bring the device to class.**

VEGA Tools App



View all class dates and register: www.vega.com/trainingus

Pricing is valid until October 2027.
*PDH as applicable with state requirements
**Pricing for training at your site, e-mail your request at ustraining@vega.com or call 513-272-4088

Advanced Startup and Commissioning

Non-contact radar & guided wave radar

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 on the second day.

Max. participants	PDH*
12	13

Who should attend:

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

Learning outcomes:

At the end of this course, attendees will be able to:

- List the four golden rules of non-contact radar commissioning
- Define an echo curve and identify how it is used to evaluate performance of a radar instrument
- Configure a 4…20 mA VEGA non-contact radar and guided wave radar sensor
- Optimize a VEGA non-contact radar and guided wave radar sensor for specific applications
- Explain the benefits of a false signal suppression
- Demonstrate the ability to troubleshoot a VEGA instrument using tools such as event memory, echo curve memory, and service recording

Theory:

Instructor-led modules with a variety of content including lecture, live demonstrations, guided hands-on group activities, and application of information through class discussions.

In-Person at a VEGA Site

Location	Cost
VEGA site	$1,750 per person

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

Prerequisites:

- Basic knowledge of instrumentation
- Basic computer skills

PACTware



View all class dates and register: www.vega.com/trainingus

Pricing is valid until October 2027.
*PDH as applicable with state requirements

Advanced Startup and Commissioning

Non-contact radar & VEGA Inventory System

This 16-hour training class discusses setup and configuration of VEGA non-contact radar sensors for use on bulk solids and setup of VEGA Inventory System using its portal.

Max. participants	PDH*
12	13

Who should attend:

Any person working with VEGA radar instrumentation with VEGA Inventory System and a gateway that would like to learn more about the setup and maintenance of those VEGA devices using common setup tools.

Learning outcomes:

At the end of this course, attendees will be able to:

- List the four golden rules of non-contact radar commissioning
- Define an echo curve and identify how it is used to evaluate performance of a radar instrument
- Configure a 4…20 mA / HART VEGA non-contact radar
- Understand the principles of inventory calculations
- Identify the steps to proper setup of the communication gateway
- Optimize VEGA Inventory System (VIS) for specific applications and needs
- Recognize common errors and diagnostic indicators within the VIS portal
- Apply troubleshooting tactics to isolate and resolve sensor, gateway, and communication errors

Theory:

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

In-Person

In-depth instruction and basic hands-on exercises instruct on setup, troubleshooting, and calibration of VEGA radar instruments and VIS.

Location	Cost
VEGA site	$1,750 per person**

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

Prerequisites:

- Basic knowledge of instrumentation
- Basic computer skills



View all class dates and register: www.vega.com/trainingus

Pricing is valid until October 2027.
*PDH as applicable with state requirements

Principles of Level and Pressure Measurement Training

This 16-hour training class introduces technologies used in process instrumentation for level and pressure measurements. In-depth instruction and live demonstrations instruct on the principles of operation, applications, advantages, and limitations to the following technologies: ultrasonic, non-contact radar, guided wave radar, vibration & capacitance switching, pressure, and radiometric.

Max. participants	PDH*
12	13

Who should attend:

Any person that is new to process measurement instrumentation or looking to increase understanding of the technologies used.

Learning outcomes:

At the end of this course, attendees will be able to:

- Identify applications where a specific technology excels
- Define the function of PACTware with DTMs
- Understand setup tools and their importance with instrumentation
- Describe proper mounting given a technology
- Recognize radiation safety principles followed with radiometric instrumentation

Theory:

Instructor-led modules with a variety of content including lecture, live demonstration, and application of information through class activities and discussions.

In-Person

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

Location	Cost
VEGA site	$1,250 per person

Prerequisites:

- Basic computer skills



View all class dates and register: www.vega.com/trainingus

Pricing is valid until October 2027.
*PDH as applicable with state requirements

Radiometric Measurements for Level and/or Density

This 8 or 16-hour training class discusses radiometric measurements for level and/or density applications. In-depth instruction and hands-on exercises instruct on the setup, calibration, and linearization of VEGA radiometric instrumentation using PACTware with VEGA's Device Type Managers (DTMs) .

Who should attend:

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

Learning outcomes:

At the end of this course, attendees will be able to:

- Describe how a radiometric measurement is made and how level is inferred based on radiation counts
- Define radioactivity and the four types of radiation used in measurement
- Demonstrate connecting a radiometric device to PACTware
- Explain the linearization table and identify how it is used in relation to level measurement with radiometric instrumentation
- Identify common troubleshooting procedures
- Explain the purpose of ALARA and identify workplace procedures that keep exposures as low as reasonably achievable

Theory:

Instructor-led modules with a variety of content including lecture, live demonstrations, guided hands-on group activities, and application of information through class discussions.



View all class dates and register: www.vega.com/trainingus

Max. participants	PDH*
10	6

8 Hour: Level or Density

Select the focus of training (level or density applications) depending on your needs.

Location	Cost
VEGA site	$950 per person
Customer site	Call or email for a quote**

Practical methodology:
Guided hands-on experience with routine maintenance and calibration of VEGA radiometric instrumentation.

Prerequisites:

- Basic knowledge of instrumentation
- Basic computer skills

Max. participants	PDH*
12	13

16 Hour: Level and Density

Location	Cost
VEGA site	$1825 per person
Customer site	Call or email for a quote**

Practical Methodology:
Guided hands-on experience with setup, configuration, and calibration of VEGA radiometric instruments.

Prerequisites:

- Basic knowledge of instrumentation
- Basic computer skills

Pricing is valid until October 2027.
*PDH as applicable with state requirements
**Pricing for training at your site, e-mail your request at ustraining@vega.com or call 513-272-4088

Radiation Safety Officer (RSO) Training

This 40-hour training class is designed for those who intend to become Radiation Safety Officers and 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.

Max. participants	PDH*
20	34

Who should attend:

Any person who plans to become a Radiation Safety Officer.

Learning outcomes:

At the end of this course, attendees are knowledgeable of all radiation safety aspects as defined in NUREG 1556, Volume 4, Revision 1, Appendix D including:

- Define radioactivity and the four types of radiation used in measurement
- Explain the biological effects of radiation
- Describe the difference between a general and specific license
- Demonstrate proper routine maintenance procedures
- List the appropriate actions to take in a given emergency scenario
- Explain radiometric theory and operation for radiometric instruments

Theory:

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

In-Person

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

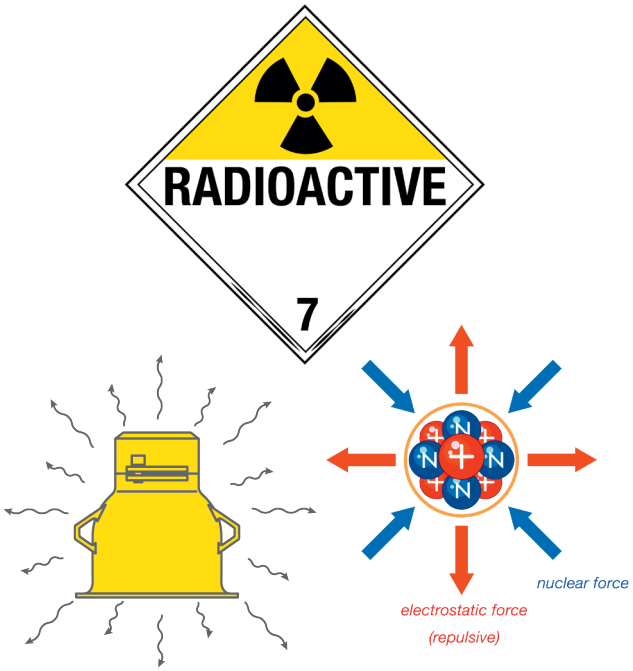
Practical methodology:

Location	Cost
VEGA site	$2,740 per person

Guided hands-on experience with routine maintenance on of radiometric instrumentation.

Prerequisites:

- Basic knowledge of instrumentation
- Basic computer skills



View all class dates and register: www.vega.com/trainingus

Pricing is valid until October 2027.
*PDH as applicable with state requirements

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 reviews the portions of the required training that a Radiation Safety Officer is more likely to benefit from reviewing.

Max. participants	PDH*
10	13

Max. participants	PDH*
(Virtual) 12	(Virtual) 6

Who should attend:

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

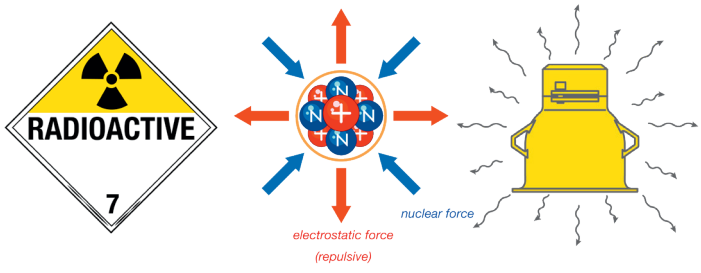
Learning outcomes:

At the end of this course, attendees are knowledgeable of all radiation safety aspects as defined in NUREG 1556, Volume 4, Revision 1, Appendix D including:

- Define radioactivity and the four types of radiation used in measurement
- Explain the biological effects of radiation
- Describe the difference between a general and specific license
- Demonstrate proper routine maintenance procedures
- List the appropriate actions to take in a given emergency scenario
- Explain radiometric theory and operation for radiometric instruments

Theory:

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



View all class dates and register: www.vega.com/trainingus

Pricing is valid until October 2027.
*PDH as applicable with state requirements

In-Person

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

Location	Cost
VEGA site	$1,250 per person
Customer site	Call or email for a quote**

Practical methodology:
Guided hands-on experience with routine maintenance on of radiometric instrumentation.

Prerequisites:

- Basic knowledge of instrumentation
- Basic computer skills

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
Microsoft Teams session allows for this training to be attended from most locations	$1075 per person

Practical Methodology:
Guided hands-on experience with setup, configuration, and calibration of VEGA radiometric instruments.

Prerequisites:

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

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 training of Authorized Users.

Max. participants	PDH*
10 (12 for virtual)	6

Who should attend:

Any person working with or around radiometric gauges.

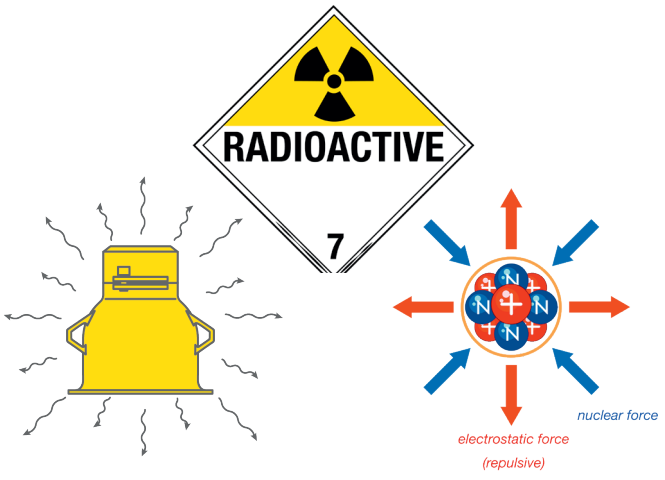
Learning outcomes:

At the end of this course, attendees are knowledgeable of all radiation safety aspects as defined in NUREG 1556, Volume 4, Revision 1, Appendix D including:

- Define radioactivity and the four types of radiation used in measurement
- Explain the biological effects of radiation
- Describe the difference between a general and specific license
- List the appropriate actions to take in a given emergency scenario
- Explain radiometric theory and operation for radiometric instruments

Theory:

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



View all class dates and register: www.vega.com/trainingus

In-Person

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

Location	Cost
VEGA site	$550 per person
Customer site	Call or email for a quote**

Practical methodology:

Guided hands-on experience with routine maintenance on of radiometric instrumentation.

Prerequisites:

- Basic knowledge of instrumentation
- Basic computer skills

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
Microsoft Teams session allows for this training to be attended from most locations	$550 per person

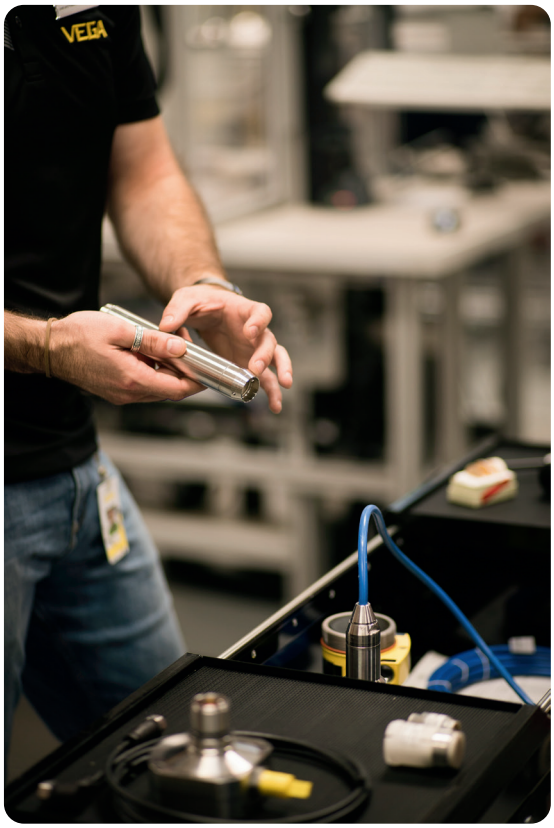
Practical methodology:

Guided hands-on experience with setup, configuration, and calibration of VEGA radiometric instruments.

Prerequisites:

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

Pricing is valid until October 2027.
*PDH as applicable with state requirements
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Need something else?

Customize your training with VEGA.

Please e-mail your training request to our training department at:
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