

PDA Education – Where Excellence Begins



Laboratory and Classroom Training



For Pharmaceutical and Biopharmaceutical Professionals

pda.org/courses

World Class Education, Training and Applied Research in Pharmaceutical Sciences and Technologies

Who Are We?

PDA provides pharmaceutical and biopharmaceutical professionals with unprecedented worldwide education, training, and research opportunities in industry sciences and associated technologies.

PDA courses provide hands-on, intensive, job-focused training you can bring back and apply immediately on the job.

PDA offers a broad curriculum designed to enhance professional development in PDA's core competencies – **aseptic processing, biotechnology, environmental monitoring, filtration, microbiology, quality/regulatory affairs, training and validation**, as well as specialized courses in areas such as **supply chain, lyophilization, pre-filled syringes and visual inspection**.

Where Are We?

Right outside Washington, D.C., our training facility is located in Bethesda, Maryland. The facility is a convenient five-minute walk from the Bethesda Metro Station on the Red Line of the Washington, DC Metro system.

Our Training Facility

The Training and Research Institute (PDA TRI) facility includes an aseptic processing suite with a filling room, component prep lab and gowning/degowning areas, clean-in-place lab, microbiology lab, biotechnology lab, classrooms and student break areas. It is fully equipped to allow students the opportunity to put their classroom-acquired knowledge to use and gain experience with the

operation of equipment typical of that used in the manufacture and testing of drug products.

Equipment in the facility available for student use includes:

- Bioreactors/fermenters
- Biosafety cabinets
- Crossflow filtration systems
- Syringe filler
- BIER (Biological Indicator Evaluator Resistometer) Vessel
- Air overpressure/saturated steam autoclave
- Filling line (filling, stoppering and capping)
- Continuous non-viable particle monitoring system
- Clean-in-Place (CIP) skid
- Vertical Laminar Flow hoods
- Visual inspection booths
- Incubators
- Portable particle counting equipment
- Fixed/portable viable air sampling equipment
- Filter integrity testing equipment
- Microscopes
- Rapid Microbial Monitoring System
- Isolator

Through classroom and laboratory training, individuals involved with quality control, quality assurance, manufacturing, compliance and research and development will gain a better understanding of the equipment and technologies they are likely to encounter in the performance of their jobs.

Available Courses

Courses are offered for professionals involved in developing and manufacturing quality pharmaceutical products, targeting individuals employed in industry, government and academia worldwide. The Training and Research Institute, located in Bethesda, Maryland is a modern training facility with an aseptic processing suite including a fill room, gowning room, component prep lab, and a clean staging area. The facility also utilizes a microbiology lab, a biotech lab, a CIP lab, and classrooms in its laboratory training courses.

While traditional lecture courses are offered at the Institute, an emphasis is placed on courses that provide hands-on laboratory experience. No other pharmaceutical association has incorporated hands-on laboratory training into its education curricula and programs. The Institute's curricula include lecture courses series offered at off-site locations and in conjunction with PDA's signature conferences.

For a full list of upcoming courses please visit pda.org/courses.

pda.org/courses



Examples of our courses:

- Aseptic Processing Training Program
- Recommended Practices for Manual Aseptic Processes
- Quality Systems for Aseptic Processing
- Biotechnology: Overview of Principles, Tools, Processes and Products
- Fundamentals of an Environmental Monitoring Program
- Recommended Practices for Manual Aseptic Processes
- Filters and Filtration in the Biopharmaceutical Industry
- Rapid Microbiological Methods: Overview of Technologies, Validation Strategies, Regulatory Opportunities and Return on Investment
- Implementation of Quality Risk Management for Commercial Pharmaceutical and Biotechnology Manufacturing Operations
- Preparing for Regulatory Inspections for the FDA and EMA
- Application of Phase Appropriate GMP to the Development of Protein Bulk Drug Substances
- Process Validation and Verification: Lifecycle Approach
- Validation of Dry Heat Processes Used for Depyrogenation and Sterilization
- Fundamentals of Lyophilization
- Prefilled Syringe User Requirements
- Single Use Systems for the Manufacturing of Parenteral Products
- Identification and Classification of Nonconformities in Molded and Tubular Glass Containers for Pharmaceutical Manufacturing
- An Introduction to Visual Inspection
- Validation of Moist Heat Sterilization Processes
- And much more!

Instructors

Our outstanding faculty provides the core foundation of our training programs. All are world-class subject matter experts with years of hands-on experience in the manufacture and control of pharmaceutical and biopharmaceutical drug products. All teach in the areas in which they work, and are selected for their expertise in their respective fields. They bring practical, first-hand experience to every course and are committed to teaching and interacting with their students.

Accreditation



PDA is accredited by the Accreditation Council for Pharmacy Education (ACPE) as a provider of continuing pharmacy education. Participants may sign up to receive Continuing Education Units (CEUs) following the successful completion of a course and submission of the provided evaluation forms.

Continuing Education for Professional Engineers

PDA is an approved provider by the New Jersey State Board of Professional Engineers and Land Surveyors to offer courses to New Jersey Professional Engineers for Continuing Professional Competency (CPC) credit. Following the full participation in this course, participants will receive a Certificate of Accomplishment specifying the number of CPC credits that may be awarded. This certificate can be submitted as verification of completion to the Board for license renewal.

PDA is recognized by the North Carolina Board of Examiners for Engineers and Surveyors as an Approved Sponsor of Continuing Professional Competency (CPC) activities for Professional Engineers licensed by North Carolina. To receive a Certificate of Accomplishment specifying the number of Professional Development Hours (PDHs) that may be awarded, course participants must request the North Carolina Board of Examiners evaluation form from PDA staff. This form must be completed onsite at the conclusion of the course and returned to PDA staff.

Customized Training – At your facility or ours

PDA can work with you to bring custom training solutions and expert instructors right to your doorstep. Get the training that meets your specific needs while saving time and money on travel. We can deliver one of our existing training courses to your organization or we can work with you to develop the custom training you need. Please see the full list of available courses (pda.org/courses) for topics offered by PDA or contact us to discuss your specific needs.

We look forward to bringing our expert-led pharmaceutical and biopharmaceutical training to you.

Contact us today to learn how our In-House Training can benefit you

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Parenteral Drug Association

Laboratory and Classroom Training

For Professionals in the Pharmaceutical and Biopharmaceutical Industry

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Donate

The Parenteral Drug Association Foundation for Pharmaceutical Education, Training and Research is an IRS-designated 501(c)(3) nonprofit, educational organization dedicated to expanding advancement in pharmaceutical science and technology across the globe via education, training and applied research.

Support can come in a variety of forms such as tax deductible monetary donations, laboratory equipment and/or consumables used in laboratory training to the Foundation for Pharmaceutical Education, Training and Research. You can also volunteer as an instructor or participate as a member of the Education Advisory Board. Whichever you decide, your support will help PDA further its mission in promoting excellence throughout the global pharmaceutical community.

For more information on making a donation to the Parenteral Drug Association Foundation for Pharmaceutical Education, Training and Research, or to the Training and Research Institute, please contact TRI@pda.org.