

# Course Catalog

Accredited Technical Training  
In Person ■ Online ■ Client Site



## CfPA Offers 450 Courses in 15 Applied Industrial Technologies

- Analytical Chemistry
- Biopharmaceutical/Biotechnology
- Ceramics/Glass Technology
- Chemical/Process Engineering
- Clinical/Non-Clinical
- Cosmetics/Personal Care/Household Products
- Environmental and Safety Technology
- Food Technology
- Mechanical/Design Engineering
- Medical Device/Diagnostics
- Packaging Technology
- Petroleum Technology
- Pharmaceutical Technology
- Plastics/Coatings Technology
- Technical/Project Management

Dear Professional,

Do you want to...

Be more effective, productive and competitive in today's ever changing world?

Access and understand the latest regulations and/or new technologies?

Maintain and verify your specialized knowledge through certification/relicensing?

Learn from and network with industry experts and peers?

Then let **The Center for Professional Advancement's (CfPA)** technical training courses equip you with the tools and knowledge you need to get up-to-speed, refresh or stay-ahead. We offer over 450 accredited course topics covering 15 industries in a variety of formats to fit your, or your company's, needs – In Person Class Settings (held in multiple locations in the U.S. and Europe), Client Site (anywhere in the world at your location) or Online (right at your desktop).

No matter what topic or format you use, you can be assured that you will be receiving the skills and knowledge that will make a difference in your professional career.

Just look at what we have to offer:

- Over 45 years of experience in providing training and continuing education to over 500,000 professionals
- Over 450 courses in 15 applied industrial technologies taught worldwide
- Course topics that include basic and introductory concepts, new advances, cutting-edge technology, or current regulations
- Certification, Accreditation & Licensing by 8 organizations
- Small class sizes in public settings that encourage interaction with course directors and faculty through workshops and Q&A sessions
- Course Directors who are recognized experts in their field
- Opportunity to network and discuss ideas with the teaching staff and peers within your field
- **Convenient Online Technical Training** – (See courses Pages 6–8)
- Customized on site training through our Client Site Programs Division
- Continuing Education Units (CEU)

In this catalog you will find a comprehensive list of **CfPA's** curriculum of courses.

For more information on **CfPA**, and any of our courses in this listing please visit our website at [www.cfpa.com](http://www.cfpa.com). Here you can request information, search for a course by topic, industry, or date and location, or just see what is "New" at **CfPA**.

If you haven't experienced what we have to offer you – now is the time. We look forward to seeing you at a **CfPA** course!

**The Center for Professional Advancement (CfPA).**

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## In Person Course Listing

### How to use this listing:

For course descriptions, course dates, or to register, visit our website at [www.cfpa.com](http://www.cfpa.com), enter the **Course ID#** in the "Search" box and follow the on-screen prompts.

### Analytical Chemistry

#### ID# Course Name

1887	Analytical Methods Validation for FDA Compliance
1933	Assay Development and Validation for Biopharmaceuticals
2635	Biologic Change Control
2228	Biosafety of Biological Drug Products
2026	Calibration in the FDA Regulated Industry
2526	Current Industry Trends and Rethinking on QbD
2525	Effective QbD: A Second Generation Approach
2030	PAT Online Process Analysis
1852	Practical Problem Solving in Chemical Analysis
2085	Real World Approaches to PAT and QbD Implementation
1075	Statistical Analysis of Laboratory Data
1832	Validation and Certification of the Pharmaceutical Quality Control Laboratory

### Biopharmaceutical/Biotechnology

#### ID# Course Name

2497	A Risk Based Approach to Computer Systems Validation
2498	Advanced Aqueous Film Coating
1933	Assay Development and Validation for Biopharmaceuticals
1774	Auditing and Inspecting Preclinical Research for GLP Compliance
2234	Best Practices in SAS Statistical Programming for Regulatory Submission
2635	Biologic Change Control
1116	Biopharmaceutical Process Systems
2228	Biosafety of Biological Drug Products
0468	Biostatistics for the Non-Statistician—Basic
2101	Biostatistics for the Non-Statistician—Beyond the Basics
1932	cGMP and Quality Issues for Biopharmaceuticals
2474	GMPs In-Depth Analysis for Pharmaceutical Life Cycle Management
2634	CMC Simulation
1989	CMC Writing and Submission Strategies: A Global Regulatory Approach
2536	Characterization of Proteins for Development and Approval of Protein Pharmaceuticals and Vaccines
1954	Commissioning, Qualification and Validation
2086	Current Good Tissue Practices
2526	Current Industry Trends and Rethinking on QbD
2525	Effective QbD: A Second Generation Approach
2466	Electronic Common Technical Document
2349	Ensuring Data Integrity: A Multi-Disciplinary Approach
2470	FDA Expectations to CAPA, RCA, Deviations & Failures
0033	Fundamentals of Biochemistry: Background for Biotechnology
2197	Fundamentals of Biotechnology
2629	Good Manufacturing Practices for Biologics
2535	Global QA/QC for Biopharmaceuticals, Vaccines and Other Biologics

2136	GLP Study Director
2443	GMP Inspections for Vaccine Facilities
0107	Good Clinical Practices (GCP)
0545	Good Laboratory Practices (GLP)
2091	ICH-Q7
2435	Implementing Supplier Audits
2100	International Patent Law
0279	Lyophilization Technology
2496	Marketing Pharmaceuticals: Labeling and Advertising Law Essentials
0902	Microbiological Control and Validation
1153	Non-Clinical Drug Safety Evaluation and Drug Development
2223	Orphan Drug Application and Submission
2030	PAT Online Process Analysis
0520	Patent Law
2095	Pharmaceutical Technology Transfer
1802	Pharmaceutical Water Systems
2077	Pharmacokinetics—ADME Fundamentals
2616	QRM Applications for Pharmaceutical Manufacturing Facilities
2085	Real World Approaches to PAT and QbD Implementation
2294	Role of Pharmaceutical QA/QC in Quality Systems
2089	Root Cause Investigation for CAPA
2613	Strategies in Human Error Reduction
2490	The Pharmaceutical Supply Chain: Good Distribution Practices
2453	Today's Pharmaceutical GMPs
1390	Transdermal Drug Delivery: Basics and Beyond
0587	U.S. FDA Drug Development and Compliance

### Ceramics/Glass Technology

#### ID# Course Name

0522	Fundamentals of Glass Technology
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### Chemical/Process Engineering TECHNOLOGY COURSES

#### ID# Course Name

0669	Aerosol Technology
2637	Atomization and Spray Drying: Applied and Practical Approach
0149	Crystallization Technology
2494	Detergents and Cleaning Products
1512	Elements of Applied Process Engineering
0747	Gas Turbine Power and Co-Generation
1997	Gasification Technology
0150	Hydrogenation Technology
1025	Industrial Rheology
1115	Mixing of Liquids and Complex Materials
0777	Powder Mixing Technology
0672	Pump Technology
2207	Siloxane Technology and Personal Care Applications
2632	Sulfate and Sulfate-Free Surfactants
0356	Sulfonation and Sulfation Technology
0476	Surfactants, Colloids, and Interfaces
0274	Suspensions and Emulsions in Pharmaceuticals and Food
2624	The Petrochemical Industry: Technology and Economics

### PROCESS COURSES

#### ID# Course Name

1901	Analysis and Control of Industrial Processes
1883	Atomization, Sprays and Atomizers

2615	cGMP for Personal Care, Cosmetic and OTC Products
0513	Distillation
2162	Fluid Flow and Line Sizing
0446	Industrial Corrosion
0289	Introduction to Petroleum Refinery Processing
1054	Machinery Failure Analysis and Prevention (US Course)
0774	Microencapsulation and Particle Coating
1882	Pilot Plant and Scale-up Studies
0727	Pneumatic Conveying for Bulk Solids
0561	Process Plant Start-Up
1075	Statistical Analysis of Laboratory Data
1082	Statistical Process Control: Basics and Advanced Topics
2035	Unit Operations for the Process Industries

## EQUIPMENT COURSES

ID#	Course Name
1672	Conception, Design and Implementation of Plant Safety Systems
0259	Fired Process Heaters
0529	Heat Exchangers
2030	PAT Online Process Analysis
0496	Piping Design, Analysis and Fabrication
0706	Shell and Tube Heat Exchangers—Mechanical Aspects

## ENGINEERING MANAGEMENT COURSES

ID#	Course Name
2529	Applied Project Management Fundamentals
2100	International Patent Law
0520	Patent Law
0162	Technical Writing in the Pharmaceutical and Allied Industries

## Clinical/Non-Clinical

ID#	Course Name
2497	A Risk Based Approach to Computer Systems Validation
2077	ADME Fundamentals
1933	Assay Development and Validation for Biopharmaceuticals
1774	Auditing and Inspecting Preclinical Research for GLP Compliance
2234	Best Practices in SAS Statistical Programming for Regulatory Submission
2228	Biosafety of Biological Drug Products
0468	Biostatistics for the Non-Statistician—Basic
2101	Biostatistics for the Non-Statistician—Beyond the Basics
2634	CMC Simulation
1989	CMC Writing and Submission Strategies: A Global Regulatory Approach
2104	Combination Product Development: Safety/Registration/Approval
1918	Developing Specifications for Drug Substances (APIs) and Drug Products
2466	Electronic Common Technical Document
0033	Fundamentals of Biochemistry: Background for Biotechnology
2564	GLP and Quality Assurance: Developing a GLP Compliant QA Program
2136	GLP Study Director
0107	Good Clinical Practices (GCP)
0545	Good Laboratory Practices (GLP)
0448	INDs/NDAs/CTDs
1153	Non-Clinical Drug Safety Evaluation and Drug Development
2223	Orphan Drug Application and Submission

2077	Pharmacokinetics—ADME Fundamentals
0858	Preparation, Packaging and Labeling of Clinical Trial Materials
2032	Selecting and Managing CROs
0772	Writing and Implementing Clinical Protocols
0587	U.S. FDA Drug Development and Compliance

## Cosmetics/Personal Care/ Household Products

ID#	Course Name
0669	Aerosol Technology
1915	Antiperspirants and Deodorant Technology: Principles and Applications
2637	Atomization and Spray Drying: Applied and Practical Approach
2615	cGMP for Personal Care, Cosmetic and OTC Products
2114	Color Additives and Their Use-In Decorative Cosmetics
1350	Cosmetic Product Formulation
2161	Cosmetics Ingredients' Assessment for Safety
2526	Current Industry Trends and Rethinking on QbD
2494	Detergents & Cleaning Products
2525	Effective QbD: A Second Generation Approach
2094	GMP for Dietary Supplements
1019	Gums and Hydrocolloids
2076	Hair Product Development
1025	Industrial Rheology
0971	Ingredients for Cosmetics and Toiletries
1115	Mixing of Liquids and Complex Materials
0777	Powder Mixing Technology
1522	Regulatory Compliance for the Personal Care Products Industry
2207	Siloxane Technology and Personal Care Applications
1050	Skin Product Development
0542	Starch: Chemistry, Properties and Applications
2398	Strategies to Substantiate Claims During Cosmetic Product Clinical Trials
2632	Sulfate and Sulfate-Free Surfactants
0356	Sulfonation and Sulfation Technology
2017	Sunscreen Regulation, Technology and Product Development
0476	Surfactants, Colloids and Interfaces
0274	Suspensions and Emulsions in Pharmaceuticals and Food
1390	Transdermal Drug Delivery: Basics and Beyond

## Environmental and Safety Technology

ID#	Course Name
1672	Conception, Design and Implementation of Plant Safety Systems
1867	Critical Process Cleaning and Cleaning Validation
2494	Detergents & Cleaning Products
1937	Environmental Control and Monitoring
2108	HACCP: A Basic Concept for Food Protection
0902	Microbiological Control and Validation
0172	Safety in the Chemical Laboratory
0071	Waste Incineration and the Combustion Process

## Food Technology

ID#	Course Name
2498	Advanced Aqueous Film Coating
2529	Applied Project Management Fundamentals

2637	Atomization and Spray Drying: Applied and Practical Approach
2526	Current Industry Trends and Rethinking on QbD
2525	Effective QbD: A Second Generation Approach
0246	Flavors—Their Creation, Definition and Use
2107	Food Emulsions and Suspensions
0689	Food Extrusion Technology
2094	GMP for Dietary Supplements
0005	GMP for the Food Industry
1019	Gums and Hydrocolloids
2108	HACCP: A Basic Concept for Food Protection
2273	Microbial Challenge Testing for Foods
0774	Microencapsulation and Particle Coating
1115	Mixing of Liquids and Complex Materials
0777	Powder Mixing Technology
0434	Sensory Evaluation
2618	Softgel Capsules: Formulation Design and Troubleshooting
0542	Starch: Chemistry, Properties and Applications
2532	Sweeteners: Development, Choices and Product Utilization
1428	Tablet Production for Operators and Supervisors

## Mechanical/Design Engineering

ID#	Course Name
1512	Elements of Applied Process Engineering
2162	Fluid Flow and Line Sizing
1054	Machinery Failure Analysis and Prevention (US Course)
1882	Pilot Plant and Scale-up Studies
0496	Piping Design, Analysis and Fabrication
0561	Process Plant Start-Up
0706	Shell and Tube Heat Exchangers – Mechanical Aspects

## Medical Device/Diagnostics

ID#	Course Name
2497	A Risk Based Approach to Computer Systems Validation
2529	Applied Project Management Fundamentals
2234	Best Practices in SAS Statistical Programming for Regulatory Submission
0719	Safety Assessment for Medical Devices and Combination Products
0023	Clean Room Technology
2104	Combination Product Development: Safety/Registration/Approval
1954	Commissioning, Qualification and Validation
1834	Complaint Handling and MDR Reporting
2086	Current Good Tissue Practices
2526	Current Industry Trends and Rethinking on QbD
1900	Design Control and Product Validation
2525	Effective QbD: A Second Generation Approach
2349	Ensuring Data Integrity: A Multi-Disciplinary Approach
2470	FDA Expectations to CAPA, RCA, Deviations & Failures
2435	Implementing Supplier Audits
2100	International Patent Law
2496	Marketing Pharmaceuticals: Labeling and Advertising Law Essentials
2092	Medical Device Quality Systems: How to Comply with Global Regulations
1992	Medical Device Regulatory Compliance
0902	Microbiological Control and Validation
0520	Patent Law

0224	Pharmaceutical Quality Assurance and Control
0736	Process Validation for the Pharmaceutical and Medical Device Industries
1789	Process Validation for Packaging of Pharmaceuticals and Medical Devices
2481	Purchasing Controls for Medical Device Companies
2294	Role of Pharmaceutical QA/QC in Quality Systems
2089	Root Cause Investigation for CAPA
2613	Strategies in Human Error Reduction
2490	The Pharmaceutical Supply Chain: Good Distribution Practices

## Packaging Technology

ID#	Course Name
0042	Packaging of Pharmaceuticals
0858	Preparation, Packaging and Labeling of Clinical Trial Materials
1789	Process Validation for Packaging of Pharmaceuticals and Medical Devices

## Petroleum Technology

ID#	Course Name
1198	Corrosion Control in the Oil and Gas Industry
0259	Fired Process Heaters
2162	Fluid Flow and Line Sizing
0747	Gas Turbine Power and Co-Generation
1997	Gasification Technology
0150	Hydrogenation Technology
0289	Introduction to Petroleum Refinery Processing
1054	Machinery Failure Analysis and Prevention (US Course)
2030	PAT Online Process Analysis
0496	Piping Design, Analysis and Fabrication
0356	Sulfonation and Sulfation Technology
2624	The Petrochemical Industry: Technology and Economics

## Pharmaceutical Technology

### GxP COURSES

ID#	Course Name
1932	cGMP and Quality Issues for Biopharmaceuticals
2012	cGMP Auditing—Strategies for Compliance
1753	cGMP for Pharmaceutical Quality Control Laboratory Personnel
2086	Current Good Tissue Practices
2050	Excipient GMPs
2094	GMP for Dietary Supplements
2474	GMPs In-Depth Analysis for Pharmaceutical Life Cycle Management
2443	GMP Inspections for Vaccine Facilities
0107	Good Clinical Practices (GCP)
0545	Good Laboratory Practices (GLP)
2490	The Pharmaceutical Supply Chain: Good Distribution Practices
2453	Today's Pharmaceutical GMPs
1646	Writing SOPs for cGMP Compliance

### REGULATORY COURSES

ID#	Course Name
1084	Adverse Drug Event Monitoring and Reporting
1998	Annual Product Reviews (APRs) for Pharmaceuticals
2529	Applied Project Management Fundamentals

- 2387 Assuring Quality of Supplies to Pharmaceutical and Related Industries
- 1774 Auditing and Inspecting Preclinical Research for GLP Compliance
- 1881 Auditing for cGMP Compliance
- 2234 Best Practices in SAS Statistical Programming for Regulatory Submission
- 2635 Biologic Change Control
- 2052 Change Control/Deviation
- 2634 CMC Simulation
- 1989 CMC Writing and Submission Strategies: A Global Regulatory Approach
- 2104 Combination Product Development: Safety/Registration/Approval
- 1834 Complaint Handling and MDR Reporting
- 1681 Conducting Effective Quality Audits
- 1918 Developing Specifications for Drug Substances (APIs) and Drug Products
- 1866 Documentation Management and Control
- 2466 Electronic Common Technical Document
- 2349 Ensuring Data Integrity: A Multi-Disciplinary Approach
- 2470 FDA Expectations to CAPA, RCA, Deviations & Failures
- 1462 Generic Drug Approvals
- 2091 ICH-Q7
- 2131 ICH Q10: Pharmaceutical Quality System
- 2435 Implementing Supplier Audits
- 0448 INDs/NDAs/CTDs
- 1808 IQ/OQ/PQ
- 2047 Laboratory Control System
- 2571 Managing the Quality of Laboratory Data: Implementing a Quality Management System
- 2496 Marketing Pharmaceuticals: Labeling and Advertising Law Essentials
- 2223 Orphan Drug Application and Submission
- 1909 Pharmaceutical Production and QA/QC Records and Reports
- 0224 Pharmaceutical Quality Assurance and Control
- 2158 Pharmaceutical Risk Management Tools: Getting the Most Out of ICH Q9
- 0187 Preparing for and Surviving an FDA Inspection
- 2616 QRM Applications for Pharmaceutical Manufacturing Facilities
- 2085 Real World Approaches to PAT and QbD Implementation
- 2089 Root Cause Investigation for CAPA
- 2294 Role of Pharmaceutical QA/QC in Quality Systems
- 1948 Scale-Up and Post Approval Changes Guidelines (SUPAC and API Changes)
- 2032 Selecting and Managing CROs
- 2613 Strategies in Human Error Reduction
- 2435 Supplier Audits
- 1880 Surviving an FDA Inspection—FDA Inspections of Non-U.S. Sites
- 0587 U.S. FDA Drug Development and Compliance
- 1984 Vendor and Contract Supplier Qualification
- 0772 Writing and Implementing Clinical Protocols

## VALIDATION COURSES

- | <b>ID#</b> | <b>Course Name</b>   |
|------------|--|
| 2497       | A Risk Based Approach to Computer Systems Validation (US Course) |
| 1887       | Analytical Methods Validation for FDA Compliance                 |
| 1933       | Assay Development and Validation for Biopharmaceuticals          |
| 1116       | Biopharmaceutical Process Systems                                |
| 1954       | Commissioning, Qualification and Validation                      |

- 1867 Critical Process Cleaning and Cleaning Validation
- 2526 Current Industry Trends and Rethinking on QbD
- 2574 Design and Implement a Risk-Based Training (RBT) System
- 1900 Design Control and Product Validation
- 0902 Microbiological Control and Validation
- 1789 Process Validation for Packaging of Pharmaceuticals and Medical Devices
- 0736 Process Validation for the Pharmaceutical and Medical Device Industries
- 2154 Validation of Computer Systems: Pharmaceutical Manufacturing

## TECHNOLOGY COURSES

- | <b>ID#</b> | <b>Course Name</b>   |
|------------|--|
| 2637       | Atomization and Spray Drying: Applied and Practical Approach |
| 2078       | Developability Assessment                                    |
| 2525       | Effective QbD: A Second Generation Approach                  |
| 2197       | Fundamentals of Biotechnology                                |
| 1019       | Gums and Hydrocolloids                                       |
| 1025       | Industrial Rheology  |
| 0279       | Lyophilization Technology                                    |
| 0774       | Microencapsulation and Particle Coating                      |
| 1115       | Mixing of Liquids and Complex Materials                      |
| 2619       | Modified Release for Solids and Parenterals                  |
| 0667       | Pharmaceutical Coating Technology                            |
| 0655       | Pharmaceutical Supervisory Management Skills                 |
| 2095       | Pharmaceutical Technology Transfer                           |
| 2077       | Pharmacokinetics—ADME Fundamentals                           |
| 0117       | Powders: Their Properties and Processing                     |
| 2085       | Real World Approaches to PAT and QbD Implementation          |
| 0542       | Starch: Chemistry, Properties and Applications               |
| 0274       | Suspensions and Emulsions in Pharmaceuticals and Food        |
| 1390       | Transdermal Drug Delivery: Basics and Beyond                 |

## PROCESS COURSES

- | <b>ID#</b> | <b>Course Name</b>   |
|------------|--|
| 2498       | Advanced Aqueous Film Coating  |
| 0840       | Active Pharmaceutical Ingredients  |
| 0468       | Biostatistics for the Non-Statistician—Basic                               |
| 2101       | Biostatistics for the Non-Statistician—Beyond the Basics                   |
| 2026       | Calibration in the FDA Regulated Industry                                  |
| 0599       | Drug Product Stability and Shelf-Life                                      |
| 2136       | GLP Study Director   |
| 0541       | Granulation, Tableting and Capsule Technology                              |
| 2100       | International Patent Law   |
| 1153       | Non-Clinical Drug Safety Evaluation and Drug Development                   |
| 1714       | Outsourcing Pharmaceutical Operations                                      |
| 0520       | Patent Law   |
| 1358       | Pharmaceutical Process Development   |
| 2590       | Pharmaceutical Semi-Solid Dosage Form: Development, Manufacture & Scale-up |
| 0777       | Powder Mixing Technology   |
| 1050       | Skin Product Development   |
| 2618       | Softgel Capsules: Formulation Design and Troubleshooting                   |
| 0435       | Sterile Products: Formulation, Manufacture and Quality Assurance           |
| 0356       | Sulfonation and Sulfation Technology                                       |
| 0476       | Surfactants, Colloids and Interfaces                                       |

**EQUIPMENT COURSES**

<b>ID#</b>	<b>Course Name</b>
2206	Advanced Tablet Press Operation
0023	Clean Room Technology
1672	Conception, Design and Implementation of Plant Safety Systems
1937	Environmental Control and Monitoring
0042	Packaging of Pharmaceuticals
2030	PAT Online Process Analysis
1802	Pharmaceutical Water Systems
0858	Preparation, Packaging and Labeling of Clinical Trial Materials
1428	Tablet Production for Operators and Supervisors

0777	Powder Mixing Technology
0592	Radiation Curing: Ultraviolet Light and Electron Beam Technology

**Technical/Project Management**

<b>ID#</b>	<b>Course Name</b>
2529	Applied Project Management Fundamentals
2100	International Patent Law
0520	Patent Law
0655	Pharmaceutical Supervisory Management Skills
0162	Technical Writing in the Pharmaceutical and Allied Industries

**Plastics/Coatings Technology**

<b>ID#</b>	<b>Course Name</b>
1613	Coextrusion Technology
1115	Mixing of Liquids and Complex Materials

**About CfPA**

The Center for Professional Advancement (CfPA) is the most recognized accredited technical training organization in the world, offering a comprehensive curriculum of over 450 courses in 15 industries including: Pharmaceutical, discovery through consumer; Chemical; Food; Cosmetics and Medical Device.

Since 1967 CfPA has trained 500,000 professionals worldwide in topics ranging from basic and introductory concepts to new advances and cutting-edge technology, and current U.S. and European regulations. CfPA courses are offered in a variety of formats – In Person, Client Site and Online.

**Online Training**

CfPA's Online Training program offers you another way to experience CfPA's Accredited Technical Training – The perfect complement to our Public and Client Site courses. Now you can easily access the knowledge you need through the Internet, from anywhere in the world. Improve your performance on the job and increase your value to your employer.

Our Online Training courses are listed starting on page 6 of this booklet. This list is constantly expanding, so visit our website at [www.cfpa.com/online-training](http://www.cfpa.com/online-training) for the most current upcoming courses.

**Client Site Training**

Take advantage of the benefits Client Site training offers: cost effective, convenient, and customized one-on-one attention. Any course in this listing can be brought to your company and tailored to your specific needs. For further information, please contact Client Site Programs: +1/732.238.1600, ext. 4547 or E-mail [clientsite@cfpa.com](mailto:clientsite@cfpa.com).

**Accreditations/Continuing Education Units\***

CfPA has received the acclaimed "authorized provider" status confirming our commitment to excellence in professional continuing education from The International Association for Continuing Education and Training (IACET).



The Center for Professional Advancement (CfPA) has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 7918 Jones Branch Dr., Suite 300, McLean VA 22102. In obtaining this approval, CfPA has demonstrated that it complies with the ANSI/IACET Standards which are widely recognized as standards of good practice internationally. CfPA therefore authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standards. CEUs will be awarded for participation in CfPA's courses at the rate of .1 CEU per contact hour upon successful completion of the entire course and 70% accuracy in the required Learners' Assessment.

\* For more information or to request a complete listing of our accreditations, visit our website.

The Center for Professional Advancement (CfPA) strives to maintain compliance with The Americans with Disabilities Act and the Laws Against Discrimination.

# CfPA Online Course Listing

## *How to use this listing:*

For course descriptions, course dates, or to register, visit our website at [www.cfpa.com](http://www.cfpa.com), enter the **Course ID#** in the "Search" box and follow the on-screen prompts.

## Biopharmaceutical/Biotechnology

### ID# Course Name

- 2604 Audit and Review Essentials for Bio/pharmaceutical Stability Programs
- 2567 Basic Requirement of the Bacterial Endotoxin Testing (BET) or LAL Program
- 2642 Clean Room Technology Basics in a Nutshell
- 2609 Cleanroom Microbiology for Non-Microbiologists
- 2622 Clinical Data Interchange Standards Consortium (CDISC) 101: Part 1
- 2627 Clinical Data Interchange Standards Consortium (CDISC) 101: Part 2
- 2643 Combination Products: How to Approach the Manufacturing and Distribution Regulations
- 2215 Control of Microbial Contamination in Manufacture of Sterile and Non-Sterile Products
- 2328 Current Applications and Future Potential of Biofuels
- 2644 Data Integrity Essentials
- 2600 Designing and Implementing a Robust Contamination Control Program
- 2626 Ensuring Your Supply Chain through Supplier Qualification
- 2639 Filing a 505(B)(2) Application
- 2608 Four Key Elements for Effective cGMP Compliance
- 2607 Human Error Reduction
- 2641 Intellectual Property Law Basics: for Managers, Engineers and Scientists
- 2216 Investigation of Microbial Contamination in Sterile and Non-Sterile Products
- 2610 Microbiological Rapid Detection Methods
- 2611 Microbiology for the Non-Microbiologist
- 2539 Protein Characterization Essentials
- 2568 Qualification/Validation for Bacterial Endotoxin Testing (BET)
- 2633 Selecting Suppliers in FDA Regulated Industries
- 2638 When, How and Why to File a Drug Master File (DMF)

## Chemical/Process Engineering TECHNOLOGY COURSES

### ID# Course Name

- 2612 Detergents and Cleaning Product Ingredients and Formulations
- 2328 Current Applications and Future Potential of Biofuels
- 2623 The Basics of Petrochemical Processing

### PROCESS COURSES

### ID# Course Name

- 2436 Agglomeration I: A Practical Approach to Particle Size Enlargement (First in a two-part series)

- 2437 Agglomeration II: Tumble Agglomeration Basics (Second in a two-part series)
- 2440 Agglomeration III: Press & Pressure Agglomeration Basics
- 2456 Direct Drying and Dryer Operations
- 2196 Encapsulation: Basic Techniques and Applications
- 2472 Evaporation and Evaporators-Part 1
- 2473 Evaporation and Evaporators-Part 2
- 2544 Industrial Application of Optimization
- 2471 Mixing Basics: An Introduction to Mixing of Liquids and Complex Fluids for the Process Industries
- 2491 Paste and High Viscosity Processing
- 2587 Process Scale Up
- 2563 Process Scaleup for Non-Engineers
- 2450 Spray Drying: Practical Design and Operation-Part 1
- 2451 Spray Drying: Practical Design and Operation-Part 2
- 2605 Successful Tablet Manufacturing

## ENGINEERING MANAGEMENT COURSES

### ID# Course Name

- 2559 Chemical Engineering for Non-Chemical Engineers: Fundamentals
- 2641 Intellectual Property Law Basics: for Managers, Engineers and Scientists
- 2261 Managing Multiple Projects Utilizing Lean Manufacturing Techniques
- 2588 Shale Gas Conversion Basics

## Clinical/Non-Clinical

### ID# Course Name

- 2225 21 CFR Part 11: Strategies for Cost Effective Compliance Using a Risk-based Approach
- 2476 An Introduction to Orphan Drug Submissions and Application
- 2622 Clinical Data Interchange Standards Consortium (CDISC) 101: Part 1
- 2627 Clinical Data Interchange Standards Consortium (CDISC) 101: Part 2

## Cosmetics/Personal Care/ Household Products

### ID# Course Name

- 2562 An Introduction to Detergents and Cleaning Products and Their Sustainability
- 2190 Antiperspirant Product Development and Marketing: A Technical and Practical Guide
- 2528 Ayurvedic Fundamentals: An Alternative Approach to Skin Care
- 2182 Color for Cosmetics-Part 1: Basics and Selection
- 2183 Color for Cosmetics-Part 2: Selection
- 2459 Cosmetic Regulations Around the Globe: Focus on Asia
- 2612 Detergents and Cleaning Product Ingredients and Formulations
- 2515 Do Nano-particles Penetrate the Skin?
- 2561 Ethnic Skins and Skin-of-Color: Biological and Product Development Differences
- 2641 Intellectual Property Law Basics: for Managers, Engineers and Scientists
- 2621 Introduction to Sunscreen Essentials and Trends
- 2246 Nutritional Supplement Formulation Basics



2543	Polymers in the Personal Care Industry
2620	Skin Aging Basics
2580	Skin Color and Skin-of-Color: Practical Considerations
2493	Skin Moisturization & Moisturizing Products: Where is water in the skin?
2547	Skin Toxicology: Alternative Methods for Skin Safety Assessment
2548	Skin Toxicology: Cytotoxicity Testing
2546	Skin Toxicology: Introduction to Skin Toxicology
2550	Skin Toxicology: Skin Sensitization Basics and Newest Testing Methods
2549	Skin Toxicology: Testing for Skin Irritation—Basics and Alternatives
2170	The International Cosmetic Ingredient Dictionary and Handbook: The Process and Impact for Back Label Disclosure
2540	The Use of Naturals in Skin Product Development: Focus on Ayurveda and Chinese Herbs

## Environmental and Safety Technology

ID#	Course Name
2328	Current Applications and Future Potential of Biofuels

## Food Technology

ID#	Course Name
2542	Cooking 101: Chemistry, Science and Application
2196	Encapsulation: Basic Techniques and Applications
2364	Food Manufacturing Layout and Design
2366	Food Safety and Regulations

## Medical Device/Diagnostics

ID#	Course Name
2225	21 CFR Part 11: Strategies for Cost Effective Compliance Using a Risk-based Approach
2414	Be Prepared: CDRH Changes Are On the Way
2642	Clean Room Technology Basics in a Nutshell
2609	Cleanroom Microbiology for Non-Microbiologists
2643	Combination Products: How to Approach the Manufacturing and Distribution Regulations
2215	Control of Microbial Contamination in Manufacture of Sterile and Non-Sterile Products
2644	Data Integrity Essentials
2626	Ensuring Your Supply Chain through Supplier Qualification
2316	Failure to Warn and Medical Device Preemption
2442	FDA's 510(k) Premarket Notification Program: What It Is and Where It's Going
2608	Four Key Elements for Effective cGMP Compliance
2607	Human Error Reduction
2216	Investigation of Microbial Contamination in Sterile and Non-Sterile Products
2610	Microbiological Rapid Detection Methods
2611	Microbiology for the Non-Microbiologist
2441	Purchasing Controls for the Medical Device Industry
2633	Selecting Suppliers in FDA Regulated Industries

## Petroleum Technology

ID#	Course Name
2328	Current Applications and Future Potential of Biofuels
2465	Mining Natural Gas: Fracking and More (First in a 4-part series)
2468	Mining Natural Gas: Fracking and More (Second in a 4-part series)
2478	Mining Natural Gas: Fracking Fluids and Proppants (Third in a 4-part series)
2483	Mining Natural Gas: Hydraulic Fracturing Calculations (Fourth in a 4-part series)
2588	Shale Gas Conversion Basics
2565	Shale Gas Conversion: Processing Alternatives and Economics
2623	The Basics of Petrochemical Processing

## Pharmaceutical Technology

### GxP COURSES

ID#	Course Name
2244	Introduction to Pharmaceutical cGMP
2245	Pharmaceutical cGMP— The Quality System

### REGULATORY COURSES

ID#	Course Name
2537	Achieving Quality Assurance and Control in a Globalizing Industry
2476	An Introduction to Orphan Drug Submissions and Application
2445	Best Practices in Being "On-Call" for FDA Submission Audits
2570	CAPA: A Critical Quality System Requirement
2643	Combination Products: How to Approach the Manufacturing and Distribution Regulations
2576	Developing and Managing Supplier Quality Agreements: An Introduction
2626	Ensuring Your Supply Chain through Supplier Qualification
2639	Filing a 505(B)(2) Application
2608	Four Key Elements for Effective cGMP Compliance
2513	Global Counterfeiting: Alarming Facts and Defensive Business Strategies
2607	Human Error Reduction
2641	Intellectual Property Law Basics: for Managers, Engineers and Scientists
2598	Laboratory Control Basics
2601	Laboratory Controls: Anticipate the FDA Inspection
2581	Out-of-Specification (OOS) Result Investigation
2585	Pharmaceutical Gas Systems Requirements
2595	Pharmaceutical Patent Law Fundamentals
2625	Pharmaceutical Water Basics
2480	The Nuts and Bolts of U.S. Drug Labeling Requirements
2633	Selecting Suppliers in FDA Regulated Industries
2584	Standard Operating Procedure (SOP) and Standard Test Method (STM) Requirements
2586	Using the Lab Information Management System (LIMS) in a Stability Testing Program
2638	When, How and Why to File a Drug Master File (DMF)

### VALIDATION COURSES

ID#	Course Name
2225	21 CFR Part 11: Strategies for Cost Effective Compliance Using a Risk-based Approach
2534	Electronic Records: 21 CFR Part 11-Revisited

- 2611 Microbiology for the Non-Microbiologist  
 2572 Risk-Based Training: An Introduction  
 2407 Setting up and Implementing Vendor and Supplier Audits

### TECHNOLOGY COURSES

- | ID#  | Course Name  |
|------|--|
| 2524 | Dermal Barriers to Infection   |
| 2196 | Encapsulation: Basic Techniques and Applications                       |
| 2621 | Introduction to Sunscreen Essentials and Trends                        |
| 2620 | Skin Aging Basics  |
| 2505 | Skin Barriers, Penetration and Compound Interaction                    |
| 2485 | Skin Biochemistry Basics (First in a 3-Part Series)                    |
| 2486 | Skin Biochemistry Basics (Second in a 3-Part Series)                   |
| 2487 | Skin Biochemistry Basics (Third in a 3-Part Series)                    |
| 2523 | The Harmful Effects of Visible Light to Skin: Gene Expression Insights |
| 2508 | Wound Repair and Tissue Healing Through Inflammation                   |

### PROCESS COURSES

- | ID#  | Course Name  |
|------|--|
| 2579 | Analytical and Product Target Profiles in QbD and Product Target Profiles in QbD |
| 2609 | Cleanroom Microbiology for Non-Microbiologists                                   |
| 2642 | Clean Room Technology Basics in a Nutshell                                       |
| 2622 | Clinical Data Interchange Standards Consortium (CDISC) 101: Part 1               |
| 2627 | Clinical Data Interchange Standards Consortium (CDISC) 101: Part 2               |

- |      |   |
|------|---|
| 2446 | Compare and Conquer SAS Programming Techniques for FDA Submissions                    |
| 2215 | Control of Microbial Contamination in Manufacture of Sterile and Non-Sterile Products |
| 2644 | Data Integrity Essentials   |
| 2600 | Designing and Implementing a Robust Contamination Control Program                     |
| 2397 | Environmental Monitoring for Non-Sterile Drugs  |
| 2382 | Improving Drug Delivery Through the Use of Polymers                                   |
| 2216 | Investigation of Microbial Contamination in Sterile and Non-Sterile Products          |
| 2610 | Microbiological Rapid Detection Methods   |
| 2246 | Nutritional Supplement Formulation Basics   |
| 2577 | QbD Beyond Concepts: A Practical Implementation Plan                                  |
| 2578 | The QbD Toolbox: Resources That Help New QbD Programs                                 |

### EQUIPMENT COURSES

- | ID#  | Course Name                 |
|------|-----------------------------|
| 2492 | Equipment Qualification 1.0 |

## Technical/Project Management

- | ID#  | Course Name  |
|------|--|
| 2596 | Essentials of Innovative Thinking  |
| 2641 | Intellectual Property Law Basics: for Managers, Engineers and Scientists |
| 2261 | Managing Multiple Projects Utilizing Lean Manufacturing Techniques       |
| 2595 | Pharmaceutical Patent Law Fundamentals                                   |

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