



CfPA
The Center for Professional Advancement
Accredited Technical Training Worldwide

Listing of Technical Courses

The *Essential Piece*
to All Your Training Needs



CfPA Offers 450 Courses in 18 Applied Industrial Technologies

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

Public, Client Site, and Select Online Courses



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 350 accredited course topics covering 18 industries in a variety of formats to fit your, or your company's, needs – Public 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. **CfPA** is the "Essential Piece" to all your technical training needs.

Just look at what we have to offer:

- 45 years of experience in providing training and continuing education to over 500,000 professionals
- Over 350 courses in 18 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 6–9)
- 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. 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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CfPA Public Course Listing

How to use this listing:

For course descriptions, course dates, or to register, visit our website at www.cfpa.com, enter the **Course ID#** in the "Quickjump" 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
2228	Biosafety of Biological Drug Products
2026	Calibration in the FDA Regulated Industry
0770	Designing the "State-of-the-Art" Laboratory
0576	High Performance Liquid Chromatography I: Fundamentals, Equipment, and Operation
2137	Laboratory Analysis in Clinical Trials
1583	Near Infra-Red Spectroscopy
2030	PAT Online Process Analysis
2067	Pharmaceutical Laboratory Information Management System (LIMS)
1852	Practical Problem Solving in Chemical Analysis
2085	Process Analytical Technology
1448	Quality Assurance for the Analytical Laboratory
1075	Statistical Analysis of Laboratory Data
2103	Statistical Process Control for PAT
1832	Validation and Certification of the Pharmaceutical Quality Control Laboratory

Biopharmaceutical/Biotechnology

ID#	Course Name
2077	ADME Fundamentals
0610	Applied cGMPs for Pharmaceutical and Allied Industries
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
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
1954	Commissioning, Qualification and Validation
2086	Current Good Tissue Practices
0770	Designing the "State-of-the-Art" Laboratory
2078	Developability Assessment
0482	Developmental and Reproductive Toxicology
1486	Downstream Processing in Biotechnology
0526	Endotoxin Testing: Drugs, Medical Devices and Biopharmaceuticals
0033	Fundamentals of Biochemistry: Background for Biotechnology
2197	Fundamentals of Biotechnology
1377	Fundamentals of Molecular Biology and Genetic Engineering
2136	GLP Study Director
0107	Good Clinical Practices (GCP)
2116	Good Distribution Practices

0545	Good Laboratory Practices (GLP)
2220	Guidelines for Skin Absorption Studies
2091	ICH-Q7
0677	Industrial Membrane Separations
2100	International Patent Law
2084	Introduction to Drug Delivery Technology
2137	Laboratory Analysis in Clinical Trials
0279	Lyophilization Technology
0902	Microbiological Control and Validation
1487	Monitoring of Clinical Drug Studies
1153	Non-Clinical Drug Safety Evaluation and Drug Development
2223	Orphan Drug Application and Submission
2018	Outsourcing Clinical Development
2130	PAT - Based Downstream Protein Purification
2030	PAT Online Process Analysis
0520	Patent Law
2115	Pharmaceuticals: Concept to Consumer
2095	Pharmaceutical Technology Transfer
1802	Pharmaceutical Water Systems
0330	Principles of Contemporary Immunology
2085	Process Analytical Technology
2349	Recognizing and Preventing Data Integrity Issues
2163	Role of PAT and QbD in Biologic Drug Production
2294	Role of Pharmaceutical QA/QC in Quality Systems
2089	Root Cause Investigation for CAPA
2103	Statistical Process Control for PAT
1390	Transdermal Drug Delivery: Basics and Beyond
0772	Writing and Implementing Clinical Protocols

Ceramics/Glass Technology

ID#	Course Name
2016	Ceramics Processing Technology
0522	Fundamentals of Glass Technology
2111	Fundamentals of Nanotechnology
0551	Refractories for Industrial Applications

Chemical/Process Engineering TECHNOLOGY COURSES

ID#	Course Name
1731	Adsorption Technology
0669	Aerosol Technology
0257	Centrifugal Pump Technology
0481	Compressor and Steam Turbine Technology
0149	Crystallization Technology
1512	Elements of Applied Process Engineering
0668	Evaporation Technology
2111	Fundamentals of Nanotechnology
0747	Gas Turbine Power and Co-Generation
1997	Gasification Technology
0150	Hydrogenation Technology
1579	Industrial Ink Technology
0677	Industrial Membrane Separations
1025	Industrial Rheology
0348	Introduction to Pulp and Paper Technology
0065	Microwave and RF Technology
1115	Mixing of Liquids and Complex Materials
1547	Modern Battery Technology
0777	Powder Mixing Technology

0672	Pump Technology
2207	Siloxane Technology and Personal Care Applications
0356	Sulfonation and Sulfation Technology
0476	Surfactants, Colloids, and Interfaces
0274	Suspensions and Emulsions in Pharmaceuticals and Food
1361	Valve Technology

PROCESS COURSES

ID#	Course Name
0664	Additives for the Coatings Industry
1901	Analysis and Control of Industrial Processes
1883	Atomization, Sprays and Atomizers
0115	Boiler Water Treatment
0513	Distillation
2162	Fluid Flow and Line Sizing
2222	Greening of Global Cosmetic Regulations
0446	Industrial Corrosion
0767	Industrial Drying of Heat Sensitive Materials
1605	Introduction to Natural Gas Processing
0289	Introduction to Petroleum Refinery Processing
1054	Machinery Failure Analysis and Prevention (<i>US Course</i>)
2235	Machinery Failure Analysis and Prevention (<i>European Course</i>)
0774	Microencapsulation and Particle Coating
1882	Pilot Plant and Scale-up Studies
0594	Planning and Analyzing Industrial Experiments
0487	Plant Layout
0727	Pneumatic Conveying for Bulk Solids
1691	Preventing Dust Explosions
0561	Process Plant Start-Up
1075	Statistical Analysis of Laboratory Data
1082	Statistical Process Control: Basics and Advanced Topics
2103	Statistical Process Control for PAT
0981	The Petrochemicals Industry
1548	Troubleshooting Refineries and Chemical Plants
2035	Unit Operations for the Process Industries
0758	Water Based Polymers
1645	Web Coating Processes and Applications

EQUIPMENT COURSES

ID#	Course Name
1541	Boiler and Steam System Management
1672	Conception, Design and Implementation of Plant Safety Systems
1830	Design and Maintenance of Aboveground Atmospheric Storage Tanks
0770	Designing the "State-of-the-Art" Laboratory
0259	Fired Process Heaters
0529	Heat Exchangers
2030	PAT Online Process Analysis
0496	Piping Design, Analysis and Fabrication
0425	Pressure Vessel Design and Analysis
0272	Process Piping Fundamentals
0706	Shell and Tube Heat Exchangers—Mechanical Aspects
1959	Troubleshooting Piping and Pipe Support Systems

ENGINEERING MANAGEMENT COURSES

ID#	Course Name
1828	Enhancing Creativity and Innovation Within Your Organization
2201	Globally Harmonized Systems (GHS)
0643	International Licensing and Strategic Partnering for Today's Technology Manager

2100	International Patent Law
1114	Managing Multiple Projects in a Resource Limited Environment
0520	Patent Law
0162	Technical Writing in the Pharmaceutical and Allied Industries

Clinical/Non-Clinical

ID#	Course Name
2077	ADME Fundamentals
1933	Assay Development and Validation for Biopharmaceuticals
0878	Auditing and Inspecting Clinical Research in the Global Environment
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
0783	Characterization of Proteins: Isolation Analysis
2104	Combination Product Development: Safety/Registration/Approval
1918	Developing Specifications for Drug Substances (APIs) and Drug Products
2118	Early Stage Clinical Studies for Drugs and Devices
0033	Fundamentals of Biochemistry: Background for Biotechnology
2136	GLP Study Director
0107	Good Clinical Practices (GCP)
0545	Good Laboratory Practices (GLP)
2220	Guidelines for Skin Absorption Studies
0448	INDs/NDAs/CTDs
2084	Introduction to Drug Delivery Technology
2137	Laboratory Analysis in Clinical Trials
1487	Monitoring of Clinical Drug Studies
1153	Non-Clinical Drug Safety Evaluation and Drug Development
2223	Orphan Drug Application and Submission
0858	Preparation, Packaging and Labeling of Clinical Trial Materials
0330	Principles of Contemporary Immunology
2032	Selecting and Managing CROs
0772	Writing and Implementing Clinical Protocols

Cosmetics/Personal Care/ Household Products

ID#	Course Name
0669	Aerosol Technology
1915	Antiperspirants and Deodorant Technology: Principles and Applications
2398	Claims Substantiation for Clinical Studies of Cosmetic Products
2114	Color Additives and Their Use-In Decorative Cosmetics
1350	Cosmetic Product Formulation
1606	Fragrances for Cosmetic and Household Products
2111	Fundamentals of Nanotechnology
2201	Globally Harmonized Systems (GHS)
2094	GMP for Dietary Supplements
2222	Greening of Global Cosmetic Regulations
2220	Guidelines for Skin Absorption Studies
1019	Gums and Hydrocolloids
2076	Hair Product Development
1025	Industrial Rheology
0971	Ingredients for Cosmetics and Toiletries

2043	Labeling OTC Drugs	0065	Microwave and RF Technology
1383	Microbiological Quality of Water-Based Consumer Products	1936	Microwave Oven Technology
1115	Mixing of Liquids and Complex Materials	1115	Mixing of Liquids and Complex Materials
2149	Pathways to Skin Penetration	0777	Powder Mixing Technology
0777	Powder Mixing Technology	2145	REACH: Registration, Evaluation and Authorization of Chemicals
2145	REACH: Registration, Evaluation and Authorization of Chemicals	0434	Sensory Evaluation
1522	Regulatory Compliance for the Personal Care Products Industry	0542	Starch: Chemistry, Properties and Applications
2064	Regulatory Status of Personal Care Products for Marketing	2035	Unit Operations for the Process Industries
2161	Safety Assessment of Cosmetic Ingredients & Formulations		
2207	Siloxane Technology and Personal Care Applications		
2274	Skin Inflammation from Triggers to Aging		
1050	Skin Product Development		
0542	Starch: Chemistry, Properties and Applications		
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		

Electric/Gas Utility Power Engineering

ID#	Course Name
0145	Applied Combustion Technology
1574	Boiler Operations Technology
0747	Gas Turbine Power and Co-Generation
1605	Introduction to Natural Gas Processing

Electronics Design, Engineering and Manufacturing

ID#	Course Name
2111	Fundamentals of Nanotechnology
0065	Microwave and RF Technology

Environmental and Safety Technology

ID#	Course Name
1672	Conception, Design and Implementation of Plant Safety Systems
1867	Critical Process Cleaning and Cleaning Validation
0770	Designing the "State-of-the-Art" Laboratory
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
0246	Flavors—Their Creation, Definition and Use
2107	Food Emulsions and Suspensions
0689	Food Extrusion Technology
2111	Fundamentals of Nanotechnology
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

Mechanical/Design Engineering

ID#	Course Name
0481	Compressor and Steam Turbine Technology
1512	Elements of Applied Process Engineering
2162	Fluid Flow and Line Sizing
1543	Inspection, Maintenance and Repair and Life Extension of Tubular Heat Exchangers
2235	Machinery Failure Analysis and Prevention (<i>European Course</i>)
1054	Machinery Failure Analysis and Prevention (<i>US Course</i>)
1560	Machinery for the Process Industries
0393	Metallurgy for Non-Metallurgists
1547	Modern Battery Technology
1882	Pilot Plant and Scale-up Studies
0692	Pipe Supports: Selection, Design, Inspection and Maintenance
0496	Piping Design, Analysis and Fabrication
0425	Pressure Vessel Design and Analysis
0561	Process Plant Start-Up
0863	Reciprocating Compressor Maintenance
0706	Shell and Tube Heat Exchangers – Mechanical Aspects
1878	Understanding Codes and Standards

Medical Device/Diagnostics

ID#	Course Name
2234	Best Practices in SAS Statistical Programming for Regulatory Submission
0719	Biocompatibility Evaluation for Registration of Medical Devices and Biomaterials
0023	Clean Room Technology
0148	Clinical Studies for Medical Devices
2104	Combination Product Development: Safety/Registration/Approval
1954	Commissioning, Qualification and Validation
1834	Complaint Handling and MDR Reporting
2086	Current Good Tissue Practices
1900	Design Control and Product Validation
0526	Endotoxin Testing: Drugs, Medical Devices and Biopharmaceuticals
2111	Fundamentals of Nanotechnology
0315	GMP/QSR/QSIT for Medical Devices
2100	International Patent Law
2092	ISO 13485, ISO 9001 and QSR Regulations for Medical Device Companies
1992	Medical Device Regulatory Compliance
0460	Medical Devices: Strategies for Getting to and Staying on the Market
0902	Microbiological Control and Validation
0520	Patent Law
2013	Principles of Process Validation
0736	Process Validation for the Pharmaceutical and Medical Device Industries
1789	Process Validation for Packaging of Pharmaceuticals and Medical Devices
2349	Recognizing and Preventing Data Integrity Issues

- 2106** Risk Management Today: Complying With the ISO 14971: 2007 Standard
2294 Role of Pharmaceutical QA/QC in Quality Systems
2089 Root Cause Investigation for CAPA
0728 Sterilization Technologies and Process Validation

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
1853 Drilling and Completion Chemicals in the Oil Industry
2134 Economics of Petroleum Refining
0259 Fired Process Heaters
2162 Fluid Flow and Line Sizing
2111 Fundamentals of Nanotechnology
1997 Gasification Technology
0150 Hydrogenation Technology
1605 Introduction to Natural Gas Processing
0289 Introduction to Petroleum Refinery Processing
1054 Machinery Failure Analysis and Prevention (*US Course*)
2235 Machinery Failure Analysis and Prevention (*European Course*)
1521 Oil and Gas Operations: Environmental Concerns and Solutions
2030 PAT Online Process Analysis
0496 Piping Design, Analysis and Fabrication
1189 Production Chemicals in the Oil Industry
0356 Sulfonation and Sulfation Technology
0981 The Petrochemicals Industry

Pharmaceutical Technology

GxP COURSES

ID# Course Name

- 0610** Applied cGMPs for Pharmaceutical and Allied Industries
1932 cGMP and Quality Issues for Biopharmaceuticals
2012 cGMP Auditing—Strategies for Compliance
0604 cGMP for Pharmaceutical Production Supervisors
1753 cGMP for Pharmaceutical Quality Control Laboratory Personnel
1630 cGMP Regulations for Pharmaceutical Corporate Executives
1836 Current Good Manufacturing Practice (cGMP) for Purchasing
2086 Current Good Tissue Practices
2050 Excipient GMPs
2094 GMP for Dietary Supplements
0107 Good Clinical Practices (GCP)
2116 Good Distribution Practices
0545 Good Laboratory Practices (GLP)
2115 Pharmaceuticals: Concept to Consumer
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
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
2052 Change Control/Deviation
1989 CMC Submissions in CTD Format
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
1999 Drug Regulatory Compliance/Drug Approval and Preapproval Inspection
1462 Generic Drug Approvals
2201 Globally Harmonized Systems (GHS)
2091 ICH-Q7
2131 ICH Q10: Pharmaceutical Quality System
0448 INDs/NDAs/CTDs
1808 IQ/OQ/PQ
2043 Labeling OTC Drugs
2047 Laboratory Control System
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
2085 Process Analytical Technology
2046 Quality System
2349 Recognizing and Preventing Data Integrity Issues
1831 Registration of Pharmaceutical Products in the European Union
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
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

ID# Course Name

- 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
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
0728 Sterilization Technologies and Process Validation
0913 System Validation, GAMP Harmonization and P.A.T. (*US Course*)
2203 System Validation, GAMP Harmonization and P.A.T. (*European Course*)

- 1832 Validation and Certification of the Pharmaceutical Quality Control Laboratory
- 2154 Validation of Computer Systems: Pharmaceutical Manufacturing
- 1526 Validation of Manufacturing and Distribution Computer Systems
- 2113 Validation Master Plan Workshop

TECHNOLOGY COURSES

- | ID# | Course Name |
|------------|--|
| 2077 | ADME Fundamentals |
| 1938 | Barrier/Isolater Technology for FDA Regulated Facilities |
| 2078 | Developability Assessment |
| 0482 | Developmental and Reproductive Toxicology |
| 2197 | Fundamentals of Biotechnology |
| 2111 | Fundamentals of Nanotechnology |
| 2220 | Guidelines for Skin Absorption Studies |
| 1019 | Gums and Hydrocolloids |
| 1025 | Industrial Rheology |
| 2084 | Introduction to Drug Delivery Technology |
| 0279 | Lyophilization Technology |
| 0774 | Microencapsulation and Particle Coating |
| 0065 | Microwave and RF Technology |
| 1115 | Mixing of Liquids and Complex Materials |
| 2149 | Pathways to Skin Penetration |
| 1470 | Pharmaceutical Aerosol Technology |
| 0667 | Pharmaceutical Coating Technology |
| 0655 | Pharmaceutical Supervisory Management Skills |
| 2095 | Pharmaceutical Technology Transfer |
| 0117 | Powders: Their Properties and Processing |
| 0330 | Principles of Contemporary Immunology |
| 2085 | Process Analytical Technology |
| 2274 | Skin Inflammation from Triggers to Aging |
| 0542 | Starch: Chemistry, Properties and Applications |
| 0274 | Suspensions and Emulsions in Pharmaceuticals and Food |
| 1390 | Transdermal Drug Delivery: Basics and Beyond |
| 0758 | Water Based Polymers |

PROCESS COURSES

- | ID# | Course Name |
|------------|--|
| 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 |
| 0770 | Designing the "State-of-the-Art" Laboratory |
| 0599 | Drug Product Stability and Shelf-Life |
| 0526 | Endotoxin Testing: Drugs, Medical Devices and Biopharmaceuticals |
| 2136 | GLP Study Director |
| 0541 | Granulation, Tableting and Capsule Technology |
| 0767 | Industrial Drying of Heat Sensitive Materials |
| 0677 | Industrial Membrane Separations Technology |
| 2100 | International Patent Law |
| 2137 | Laboratory Analysis in Clinical Trials |
| 1487 | Monitoring of Clinical Drug Studies |
| 1153 | Non-Clinical Drug Safety Evaluation and Drug Development |
| 2018 | Outsourcing Clinical Development |
| 1714 | Outsourcing Pharmaceutical Operations |
| 0520 | Patent Law |
| 2149 | Pathways to Skin Penetration |
| 1358 | Pharmaceutical Process Development |
| 0777 | Powder Mixing Technology |
| 1050 | Skin Product Development |

- 2103 Statistical Process Control for PAT
- 0435 Sterile Products: Formulation, Manufacture and Quality Assurance
- 2075 Sterilization in the Pharmaceutical Industry
- 0356 Sulfonation and Sulfation Technology
- 0476 Surfactants, Colloids and Interfaces

EQUIPMENT COURSES

- | ID# | Course Name |
|------------|---|
| 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 |
| 2067 | Pharmaceutical Laboratory Information Management System (LIMS) |
| 1802 | Pharmaceutical Water Systems |
| 0858 | Preparation, Packaging and Labeling of Clinical Trial Materials |
| 1428 | Tablet Production for Operators and Supervisors |

Plastics/Coatings Technology

- | ID# | Course Name |
|------------|--|
| 0664 | Additives for the Coatings Industry |
| 1613 | Coextrusion Technology |
| 2111 | Fundamentals of Nanotechnology |
| 1115 | Mixing of Liquids and Complex Materials |
| 0098 | Plastics Additives |
| 0777 | Powder Mixing Technology |
| 1730 | Printing Technology |
| 0592 | Radiation Curing: Ultraviolet Light and Electron Beam Technology |
| 0758 | Water Based Polymers |
| 1645 | Web Coating Processes and Applications |

Pulp and Paper Technology

- | ID# | Course Name |
|------------|---|
| 2111 | Fundamentals of Nanotechnology |
| 1579 | Industrial Ink Technology |
| 0348 | Introduction to Pulp and Paper Technology |
| 1730 | Printing Technology |
| 1645 | Web Coating Processes and Applications |

Technical/Project Management

- | ID# | Course Name |
|------------|---|
| 0129 | Effective Project Management |
| 1828 | Enhancing Creativity and Innovation Within Your Organization |
| 0643 | International Licensing and Strategic Partnering for Today's Technology Manager |
| 2100 | International Patent Law |
| 1114 | Managing Multiple Projects in a Resource Limited Environment |
| 0520 | Patent Law |
| 0655 | Pharmaceutical Supervisory Management Skills |
| 0162 | Technical Writing in the Pharmaceutical and Allied Industries |
| 0253 | The Technical Secretary/Administrative Assistant |

CFPA Online Course Listing

How to use this listing:

For course descriptions, course dates, or to register, visit our website at www.cfpa.com, enter the **Course ID#** in the **"Quickjump"** box and follow the on-screen prompts.

Biopharmaceutical/Biotechnology

ID#	Course Name
2317	A Survey of Microbiology for the Pharmaceutical, Biotechnology, and Medical Device Industries
2303	An Overview of Process Validation for the Pharmaceutical, Medical Device and Related Industries
2214	Best Practices in SAS Statistical Programming for Regulatory Submission: Creating Publication-Quality Summary Tables (SECOND in a Two-Part Series)
2213	Best Practices in SAS Statistical Programming for Regulatory Submission: Understanding and Applying the QC Plan to Validate Summary Tables (FIRST in a Two-Part Series)
2392	Combination Products: How to Approach the Proposed Manufacturing and Distribution Requirements
2132	Complaint Systems-The Essential Requirements
2185	Conducting Compliant Endotoxin Testing
2215	Control of Microbial Contamination in Manufacture of Sterile and Non-Sterile Products
2240	CSOs: Are They Right for You?
2328	Current Applications and Future Potential of Biofuels
2204	Endotoxin Testing: Resolving Interference and Test Validation
2205	Getting a Share of the BioDefense Grant Billions
2284	Implementing GEP (Good Engineering Practices) in the Pharmaceutical, BioPharmaceutical, and Medical Device Industries
2216	Investigation of Microbial Contamination in Sterile and Non-Sterile Products
2332	Keys to Risk Management: Implementation, Documentation, Monitoring & Mitigation
2236	Lyophilization 101: Principles, Physical Properties and Characterization Techniques
2241	Lyophilization: Optimized Pre-Formulation, Formulation, and Cycle Development Techniques
2271	Meeting Today's FDA Requirements for Clinical Trial Processes
2212	Pharmaceutical Water and the International Regulatory Environment
2211	Pharmaceutical Water: Chemistry, System Design and Validation
2259	Pharmaceutical Water Sampling and Testing
2258	Pharmaceutical Water System Design and Operation
2260	Pharmaceutical Water Systems: Validation and Start-Up
2319	Proven Methods to Root Cause Analysis for CAPA – FREE
2287	Strategies for Leveraging Pat/QBD in Biologic Applications

Chemical/Process Engineering

TECHNOLOGY COURSES

ID#	Course Name
2218	Biocidal and Plant Protection Products in the EU: Borderlines and Overlaps
2157	Bringing Nanotechnology to Your Market

2353	Catch the Wind-Current and Future Utilization of Wind Power
2331	Clean Coal Technology: A Clear Picture
2328	Current Applications and Future Potential of Biofuels
2355	Recovering Energy from Flowing Water- Hydroelectric, Tidal and Wave Technologies
2354	Recovering Energy from the Earth- Geothermal and Oceanic Processes
2352	Solar Energy-Capturing and Utilizing Sunlight
2351	Sustainable Energy for an Expanding Global Population FREE
2356	Systems Approach to Sustainable Energy Solutions

PROCESS COURSES

ID#	Course Name
2341	Current Rules, Guidance Documents & Implementation Status For Reach — Fall '09
2196	Encapsulation: Basic Techniques and Applications
2221	Preservatives and Biocides in Consumer Products
2286	Reach Alert: Current Rules, Guidance Documents and Implementation Status — Spring '09

EQUIPMENT COURSES

ID#	Course Name
2291	Current EU Chemical Control Regulations, From Reach To The GHS-EU Focus
2348	Heat Exchanger Design in An Energy Conscious World
2180	Heat Exchangers: Equipment, Design and Operation
2399	Optimizing Energy Use in Nuisance Dust Collection Applications

ENGINEERING MANAGEMENT COURSES

ID#	Course Name
2345	Lean Methodology: Eliminate Waste, Improve Efficiency, Increase Profits
2261	Managing Multiple Projects Utilizing Lean Manufacturing Techniques

Clinical/Non-Clinical

ID#	Course Name
2225	21 CFR Part 11: Strategies for Cost Effective Compliance Using a Risk-based Approach
2214	Best Practices in SAS Statistical Programming for Regulatory Submission: Creating Publication-Quality Summary Tables (SECOND in a Two-Part Series)
2213	Best Practices in SAS Statistical Programming for Regulatory Submission: Understanding and Applying the QC Plan to Validate Summary Tables (FIRST in a Two-Part Series)
2271	Clinical Testing Process
2272	Clinical Testing Submissions
2184	Computerized Systems Used in Clinical Investigations: The New FDA Guidance
2278	Cytotoxicity Testing Compliance with Reach & The 7th Amendment
2250	Effective Clinical Data Acceptance Testing
2296	Effective Tools In Selecting A CRO
2298	Effectively Managing CROs
2282	Effects of Psychological Factors & Stress on Skin Inflammatory Disorder
2204	Endotoxin Testing: Resolving Interference and Test Validation
2280	Genotoxicity Testing Compliance with Reach & The 7th Amendment
2202	Guidelines to In Vitro Skin Absorption Studies
2236	Lyophilization 101: Principles, Physical Properties and Characterization Techniques

- 2241 Lyophilization: Optimized Pre-Formulation, Formulation, and Cycle Development Techniques
- 2277 Phototoxicity Testing Compliance with Reach & The 7th Amendment
- 2323 Testing For Acute Chemical Toxicity – In Vitro Approaches Compliance With Reach and The 7th Amendment
- 2276 Testing For Eye Irritation & Corrosion Compliance With Reach & The 7th Amendment
- 2279 Toxicity To Reproduction & Endocrine Disrupters Compliance with Reach
- 2281 Toxicokinetics & Metabolism Testing Compliance with Reach

Cosmetics/Personal Care/ Household Products

- | ID# | Course Name |
|------|--|
| 2218 | Biocidal and Plant Protection Products in the EU: Borderlines and Overlaps |
| 2157 | Bringing Nanotechnology to Your Market |
| 2370 | Claim Substantiation for Clinical Studies of Cosmetic Products |
| 2186 | Color Additive Basics for Decorative Cosmetics |
| 2182 | Color Selection for Decorative Cosmetics |
| 2256 | Cosmeceutical Products, Market and Claims |
| 2288 | Cosmetic Colorant Global Market, Regulations And Trends |
| 2238 | Creating Fragrance for a Green World |
| 2341 | Current Rules, Guidance Documents & Implementation Status For Reach — Fall '09 |
| 2278 | Cytotoxicity Testing Compliance with Reach & The 7th Amendment |
| 2183 | Decorative Cosmetics—Using Absorption and Pearl Pigments |
| 2282 | Effects of Psychological Factors & Stress on Skin Inflammatory Disorder |
| 2190 | Everything You Wanted to Know About Antiperspirants in 90 Minutes |
| 2257 | Food Supplements, Additives and Herbal Medicines |
| 2254 | Fragrance and the Mind |
| 2253 | Fragrance for the Chemist |
| 2280 | Genotoxicity Testing Compliance with Reach & The 7th Amendment |
| 2226 | Global Cosmetic Regulations: Going Green |
| 2202 | Guidelines to In Vitro Skin Absorption Studies |
| 2170 | The International Cosmetic Ingredient Dictionary and Handbook: The Process and Impact for Back Label Disclosure |
| 2301 | International Regulatory Update for The Personal Care Products Industry: Focus On The European Union, Latin America & Canada |
| 2299 | Initiatives in the Cosmetic & Personal Care Industry |
| 2125 | Introduction to Skin Aging |
| 2336 | It's Not Easy Going Green: Preparing for The Greening Of Cosmetic Regulations – FREE |
| 2239 | Natural Ingredients in Formulating Skin Care Products |
| 2246 | Nutritional Supplement Formulation Basics |
| 2277 | Phototoxicity Testing Compliance with Reach & The 7th Amendment |
| 2255 | Preservatives and Antimicrobials in Cosmetic, Food and Personal Care Products in the US |
| 2221 | Preservatives and Biocides in Consumer Products |
| 2286 | Reach Alert: Current Rules, Guidance Documents and Implementation Status — Spring '09 |
| 2383 | Overcoming the Challenges to Transdermal Drug Delivery Development—An Introduction— FREE |
| 2247 | Silicon to Siloxanes: Chemistry and Properties |
| 2217 | Skin Inflammation – Reasons, Prevention, Treatment and Testing |

- 2302 Sunscreens 360°: Regulatory Overview And Update
- 2165 Sunscreens: Global Marketing and Product Trends
- 2323 Testing For Acute Chemical Toxicity – In Vitro Approaches Compliance With Reach and The 7th Amendment
- 2276 Testing For Eye Irritation & Corrosion Compliance With Reach & The 7th Amendment
- 2269 Testing For Skin Irritation, Sensitation and Corrosion: Compliance with Reach & The 7th Amendment
- 2219 Topical Antiseptic Product Development
- 2279 Toxicity To Reproduction & Endocrine Disrupters: Compliance with Reach & The 7th Amendment
- 2281 Toxicokinetics & Metabolism Testing: Compliance with Reach & The 7th Amendment
- 2326 USP Guidelines for Product Quality and Product Performance Tests

Environmental and Safety Technology

- | ID# | Course Name |
|------|--|
| 2218 | Biocidal and Plant Protection Products in the EU: Borderlines and Overlaps |
| 2331 | Clean Coal Technology: A Clear Picture |
| 2328 | Current Applications and Future Potential of Biofuels |
| 2353 | Catch the Wind—Current and Future Utilization of Wind Power |
| 2328 | Current Applications and Future Potential of Biofuels |
| 2355 | Recovering Energy from Flowing Water— Hydroelectric, Tidal and Wave Technologies |
| 2354 | Recovering Energy from the Earth— Geothermal and Oceanic Processes |
| 2352 | Solar Energy—Capturing and Utilizing Sunlight |
| 2351 | Sustainable Energy for an Expanding Global Population FREE |
| 2356 | Systems Approach to Sustainable Energy Solutions |

Food Technology

- | ID# | Course Name |
|------|---|
| 2364 | An Introduction to Food Manufacturing Operations |
| 2218 | Biocidal and Plant Protection Products in the EU: Borderlines and Overlaps |
| 2285 | Critical Limits, Monitoring and Corrective Actions—A HACCP Review |
| 2369 | Dry Food Manufacturing Operations |
| 2196 | Encapsulation: Basic Techniques and Applications |
| 2330 | FDA to Regulate Tobacco: What To Expect |
| 2365 | Food Manufacturing Layout and Design |
| 2366 | Food Safety and Regulations |
| 2257 | Food Supplements, Additives and Herbal Medicines |
| 2342 | Food Traceability: Delivering High Quality and Safe Products to the Consumer |
| 2166 | HACCP: Hazard Analysis and Critical Control Points – An Introduction and Review |
| 2167 | HACCP: Critical Limits, Monitoring and Corrective Actions – An Introduction and Review |
| 2168 | HACCP: Verification and Record Keeping – An Introduction and Review |
| 2318 | History, Theory, and Instrumentation of Near-Infrared Spectroscopy |
| 2345 | Lean Methodology: Eliminate Waste, Improve Efficiency, Increase Profits |
| 2209 | Microbial Shelf Life and Challenge Testing for Foods (Second in a Three-Part Series) |
| 2255 | Preservatives and Antimicrobials in Cosmetic, Food and Personal Care Products in the US |
| 2237 | Protecting the Food Supply from Terrorists: What the Food Industry Needs to Know |
| 2300 | Quality Control and Flavor Usage in Foods |

- 2368 Refrigerated and Frozen Food Operations
 2367 Thermal Process Operations
 2210 Understanding and Using Microbial Computer Modeling in Food Microbiology (Third in a Three-Part Series)
 2208 Understanding and Using Microbial Sampling Plans for Foods (First in a Three-Part Series)
 2320 Who Really Regulates Your Pizza And Is It Cool?

Medical Device/Diagnostics

- | ID# | Course Name |
|------------|--|
| 2225 | 21 CFR Part 11: Strategies for Cost Effective Compliance Using a Risk-based Approach |
| 2317 | A Survey of Microbiology for the Pharmaceutical, Biotechnology, and Medical Device Industries |
| 2325 | An Overview of Documentation Requirements in FDA Regulated Industries (DV) |
| 2303 | An Overview of Process Validation for the Pharmaceutical, Medical Device and Related Industries |
| 2227 | Assuring Your Supply Chain through Supplier Qualification |
| 2214 | Best Practices in SAS Statistical Programming for Regulatory Submission: Creating Publication-Quality Summary Tables (SECOND in a Two-Part Series) |
| 2213 | Best Practices in SAS Statistical Programming for Regulatory Submission: Understanding and Applying the QC Plan to Validate Summary Tables |
| 2157 | Bringing Nanotechnology to Your Market |
| 2124 | CAPA—the Heart of Your Quality System |
| 2179 | cGTP in a Nutshell |
| 2392 | Combination Products: How to Approach the Proposed Manufacturing and Distribution Requirements |
| 2132 | Complaint Systems—The Essential Requirements |
| 2215 | Control of Microbial Contamination in Manufacture of Sterile and Non-Sterile Products |
| 2240 | CSOs: Are They Right for You? |
| 2343 | Data Integrity: The Proof's in the Inputting – FREE |
| 2135 | Equipment Qualification in a Nutshell |
| 2316 | Failure to Warn and Medical Device Preemption |
| 2339 | Implementing and Managing the Medical Device Complaint System |
| 2284 | Implementing GEP (Good Engineering Practices) in the Pharmaceutical, BioPharmaceutical, and Medical Device Industries |
| 2216 | Investigation of Microbial Contamination in Sterile and Non-Sterile Products |
| 2332 | Keys to Risk Management: Implementation, Documentation, Monitoring & Mitigation |
| 2381 | Preparing for the International Harmonization of Medical Devices |
| 2189 | Process Validation in a Nutshell |
| 2293 | Polymers and Their Use in the Medical Device Industry |
| 2319 | Proven Methods to Root Cause Analysis tor CAPA – FREE |
| 2147 | Risk Hazard Assessment for Validation-ISO 14971 |
| 2338 | The Coming Medical Device Revolution |
| 2394 | Updates on Process Validation for Medical Devices-New Approaches & Practices |

Petroleum Technology

- | ID# | Course Name |
|------------|---|
| 2331 | Clean Coal Technology: A Clear Picture |
| 2328 | Current Applications and Future Potential of Biofuels |
| 2348 | Heat Exchanger Design in An Energy Conscious World |

- 2345 Lean Methodology: Eliminate Waste, Improve Efficiency, Increase Profits
 2356 Systems Approach to Sustainable Energy Solutions

Pharmaceutical Technology

GxP COURSES

- | ID# | Course Name |
|------------|---|
| 2179 | cGTP in a Nutshell |
| 2198 | Evolution of the Pharmaceutical Industry through 2020 |
| 2244 | Introduction to Pharmaceutical cGMP |
| 2245 | Pharmaceutical cGMP– The Quality System |
| 2199 | Understanding Pharma: Business Growth and Drivers |

REGULATORY COURSES

- | ID# | Course Name |
|------------|---|
| 2325 | An Overview of Documentation Requirements in FDA Regulated Industries |
| 2227 | Assuring Your Supply Chain through Supplier Qualification |
| 2214 | Best Practices in SAS Statistical Programming for Regulatory Submission: Creating Publication-Quality Summary Tables (SECOND in a Two-Part Series) |
| 2213 | Best Practices in SAS Statistical Programming for Regulatory Submission: Understanding and Applying the QC Plan to Validate Summary Tables (FIRST in a Two-Part Series) |
| 2128 | Choosing Sensors, Monitors and Instruments for PAT Programs |
| 2392 | Combination Products: How to Approach the Proposed Manufacturing and Distribution Requirements |
| 2132 | Complaint Systems-The Essential Requirements |
| 2256 | Cosmeceutical Products, Market and Claims |
| 2127 | Cost Effective Quality-by-Design and Critical-to-Quality Tools for PAT |
| 2334 | Crackdown on Institutional Review Boards (IRBs) |
| 2240 | CSOs: Are They Right for You? |
| 2291 | Current EU Chemical Control Regulations, From Reach To The GHS–EU Focus |
| 2298 | Effectively Managing CROs |
| 2296 | Effective Tools In Selecting A CRO |
| 2315 | Failure to Warn and Preemption—Pharmaceutical Focus |
| 2330 | FDA to Regulate Tobacco: What to Expect |
| 2332 | Keys to Risk Management: Implementation, Documentation, Monitoring & Mitigation |
| 2309 | Introduction to cGMP System-Based Audits |
| 2271 | Meeting Today's FDA Requirements for Clinical Trial Processes |
| 2160 | Practical Steps to Understanding ICH Q9 |
| 2221 | Preservatives and Biocides in Consumer Products |
| 2319 | Proven Methods to Root Cause Analysis tor CAPA – FREE |
| 2379 | Tactics to an Effective FDA Submission |
| 2337 | The China Syndrome: Quality Issues in Manufacturing |
| 2326 | USP Guidelines for Product Quality and Product Performance Tests |

VALIDATION COURSES

- | ID# | Course Name |
|------------|--|
| 2225 | 21 CFR Part 11: Strategies for Cost Effective Compliance Using a Risk-based Approach |
| 2343 | Data Integrity: The Proof's in the Inputting – FREE |

TECHNOLOGY COURSES

- | ID# | Course Name |
|------------|--|
| 2157 | Bringing Nanotechnology to Your Market |
| 2196 | Encapsulation: Basic Techniques and Applications |
| 2202 | Guidelines to In Vitro Skin Absorption Studies |

- 2236 Lyophilization 101: Principles, Physical Properties and Characterization Techniques
- 2241 Lyophilization: Optimized Pre-Formulation, Formulation, and Cycle Development Techniques
- 2217 Skin Inflammation – Reasons, Prevention, Treatment and Testing

PROCESS COURSES

- | ID# | Course Name |
|------|---|
| 2317 | A Survey of Microbiology for the Pharmaceutical, Biotechnology, and Medical Device Industries |
| 2303 | An Overview of Process Validation for the Pharmaceutical, Medical Device and Related Industries |
| 2218 | Biocidal and Plant Protection Products in the EU: Borderlines and Overlaps |
| 2185 | Conducting Compliant Endotoxin Testing |
| 2215 | Control of Microbial Contamination in Manufacture of Sterile and Non-Sterile Products |
| 2204 | Endotoxin Testing: Resolving Interference and Test Validation |
| 2397 | Environmental Monitoring for Non-Sterile Drugs |
| 2318 | History, Theory, and Instrumentation of Near-Infrared Spectroscopy |
| 2284 | Implementing GEP (Good Engineering Practices) in the Pharmaceutical, BioPharmaceutical, and Medical Device Industries |
| 2382 | Improving Drug Delivery Through the Use of Polymers |
| 2321 | Instrumental Methods for Pharmaceutical Trace Metals Analysis |
| 2216 | Investigation of Microbial Contamination in Sterile and Non-Sterile Products |
| 2322 | Key Pat and QBD Concepts: Quality Systems Integration Strategies (QSIS) |
| 2304 | Key Pat Concepts: Focus on Design of Experiment |
| 2289 | Key Pat Concepts: Focus on Design Space |
| 2305 | Key Pat Concepts: Focus on Desired State |
| 2345 | Lean Methodology: Eliminate Waste, Improve Efficiency, Increase Profits |
| 2246 | Nutritional Supplement Formulation Basics |
| 2327 | Pharmaceutical Process Validation Basics |
| 2189 | Process Validation in a Nutshell |
| 2156 | Risk Management in a Nutshell |
| 2126 | Selecting a Drug Product Candidate Using Quality Risk Management: PAT & QbD |
| 2219 | Topical Antiseptic Product Development |

EQUIPMENT COURSES

- | ID# | Course Name |
|------|---|
| 2200 | DQ: A Guide to Protecting Your Interests When Procuring Sensors |
| 2212 | Pharmaceutical Water and the International Regulatory Environment |
| 2211 | Pharmaceutical Water: Chemistry, System Design and Validation |
| 2259 | Pharmaceutical Water Sampling and Testing |
| 2258 | Pharmaceutical Water System Design and Operation |
| 2260 | Pharmaceutical Water Systems: Validation and Start-Up |

Technical/Project Management

- | ID# | Course Name |
|------|---|
| 2240 | CSOs: Are They Right for You? |
| 2198 | Evolution of the Pharmaceutical Industry through 2020 |
| 2205 | Getting a Share of the BioDefense Grant Billions |

- 2345 Lean Methodology: Eliminate Waste, Improve Efficiency, Increase Profits
- 2261 Managing Multiple Projects Utilizing Lean Manufacturing Techniques
- 2199 Understanding Pharma: Business Growth and Drivers

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 350 Public, Client Site and Online courses in 18 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 – Public offering, Client Site and Online.

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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 for the most current upcoming courses.

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CfPA's continuing education has been recognized by thirteen (13) such organizations. Most scientific and engineering professional associations and societies develop programs to identify and ensure competence of individual professionals. They award certificates (official approvals) to professionals who meet recognized standards of competence.



CfPA has been reviewed and approved as an Authorized Provider (#640) by The International Association for Continuing Education and Training (IACET) and awards Continuing Education Units (CEU) for participation in all courses. Please note that CEU will only be awarded upon successful completion of the course, i.e. attendance at essentially all the formal sessions and submission of a course evaluation.



CfPA is accredited by the Accreditation Council for Pharmacy Education (ACPE) as an authorized provider of continuing pharmacy education.

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

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The Center for Professional Advancement

Accredited Technical Training Worldwide

Public



Client Site



Online



Corporate Office:

P.O. Box 7077
East Brunswick, NJ USA 08816-7077
Tel: +1/732.238.1600
Fax: +1/732.238.9113
E-mail: info@cfpa.com