3 Ways To Register

- Internet: www.cfpa.com
- Fax registration form to: 732.238.9113
- Mail registration form to:
The Center for Professional Advancement (CfPA)
190 State Highway 18, Suite 203, East Brunswick, NJ 08816 USA

Registration Form

Course ID#: 541

Granulation, Tablettting and Capsule Technology
August 15-18, 2016 • Burlington, CA

Dr. Mr. Ms. First Name Last Name
Job Title
Company/Institution
Company Address
City State Zip
Tel Fax

E-mail Address

Note: Please complete separate form for each registrant.

I accept CfPA’s Terms and Conditions

Tuition and Payment Methods

Early Bird (Save $200)
(Must register and pay by July 4, 2016)

Regular Tuition

U.S. $2850 pp
U.S. $3050 pp

Group Discount: Register 2 or more from the same company, at the same time, for this course and receive a 10% discount off each registration.

Tuition payable in US funds net of all charges includes continental breakfast, lunch, breaks and course notes.

Note: Payment is due 2 weeks prior to course or at time of registration.

Send Invoice/Bill Me Pursuant to Order If Requested

Check (payable in US funds to The Center for Professional Advancement)

Credit Card Visa MasterCard American Express Discover

Card # Exp. Date

Cardholder Name (As oppose on card)
Security Code

Signature
(3 or 4 digit code)

Credit Card billing address (if different than above address)

Terms and Conditions

Payment: Tuition payable in US funds net of all charges. Payment is due at time of registration or upon receipt of invoice. If payment has not been received two weeks before the course, a credit card will be required to guarantee registration.

Discounts/Rates: To receive the Early Bird tuition rate, payment is required at time of registration and/or BEFORE early registration tuition expires or the regular tuition rate will apply. If choosing invoice/ wire transfer, payment must be received prior to expiration of early registration tuition or the regular tuition rate will apply. All tuition prices are a per person rate. To qualify for the Group Rate discount, registration must be for two or more enrollees registering at the same time, from the same company, for the same course. Please note: Group Rate Discount cannot be combined with any other discount. Multiple discounts not applicable.

Cancellations/Substitutions/FEES: All cancellations must be in writing and emailed to info@cfpa.com. All cancellations are subject to a $300.00 cancellation fee. Applicants may cancel up to four (4) weeks prior to the course start date for a refund less cancellation fee. Applicants that cancel less than four (4) weeks prior to the course will be issued a credit less cancellation fee that can be used towards a future course up to one year from the date of issuance. If you do not cancel and do not attend you are still responsible for the full payment. If for any reason, CfPA decides to cancel this course, we are not responsible for airfare, hotel or other costs incurred by the registrant. Program content, schedule and instructors are subject to change without notice. Substitutions are permitted at any time, must be in writing and emailed to Customer Service at info@cfpa.com.

Confirmation Letters: Before each course begins, all registrants will receive written final confirmation including detailed information regarding course location – VIA EMAIL. We recommend that travel/hotel arrangements not be made until final confirmation package is received. If confirmation is not received by email prior to the course please contact Customer Service at info@cfpa.com.

Course photography / video: By registering and attending a CfPA course, you agree to have your photograph and/or video taken at the course venue, and you do not have any objections to CfPA using these photos and/or videos for marketing or any other CfPA Course and/or promotional purposes. You agree to release CfPA from any kind of claims arising out of copyright or privacy violations. All questions regarding this matter should be sent to Customer Service at info@cfpa.com.

Please note: English will be used in all lectures and course notes.

Courses of Interest

- Design and Troubleshooting of the Granulated Product and Processes course id# 2560
- Drug Product Stability and Shelf-Life course id# 599
- Formulation Design and Troubleshooting of Pharmaceutical Dosage Forms: Tablets course id# 2593
- Powders: Their Properties and Processing course id# 117
- Softgel Capsules: Formulation Design and Troubleshooting course id# 2018
- Sterile Products: Formulation, Manufacture and Quality Assurance course id# 435

Who We Are

The Center for Professional Advancement (CfPA) is the largest accredited technical training organization in the world with a curriculum of approximately 450 short courses in 15 industries including Pharmaceutical, Biotechnology, Medical Device, Chemical, Cosmetics, Food and more.

Since our founding in 1967, we have successfully trained nearly a half million people 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 Online – to fit you or your company’s training needs.

Accreditations/Recertifications

The Center for Professional Advancement (CfPA) has been approved as an Accredited Provider by the International Association for Continuing Education and Training (IACET), 10101 NW 8th Hill Rd, Suite 150, Reston, VA 20190. In obtaining this approval, CfPA has demonstrated that its courses comply with the ANSI/IACET Standards which are widely recognized as standards of good practice internationally. CfPA is therefore authorized to utilize the 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 Learner’s Assessment. This course offers a total of 24 contact hours or 2.4 CEUs.

SME Certified Manufacturing Engineers (CMfgE) and Technologists (CMfgT) may earn 24 Certification Units toward certification by attending this program. Certification is valuable to everyone in industry. It is a recognized method of maintaining knowledge and skills in your field. For complete details on SME Certification, contact service@smeforum.org. One SME Drive, Dearborn, MI 48121. 1-800-733-4763

The Center for Professional Advancement offers many courses which have a chemical component. Such courses may earn up to 20 Certification Units toward certification by The National Certification Commission in Chemistry and Chemical Engineering, sponsored by The American Institute of Chemists.

The Center for Professional Advancement (CfPA) is a Regulatory Affairs Professionals Society (RAPS) PA Professional Development Portal provider. The Center for Professional Advancement (CfPA) is committed to enhancing the continuing professional development of regulatory affairs professionals and other stakeholders through appropriate regulatory affairs learning activities and programs. The Center for Professional Advancement (CfPA) has agreed to follow RAPS-established operational and educational criteria. This course has been pre-approved by RAPS as eligible for up to 12 credits towards a participant’s RAC recertification upon full completion.

The Center for Professional Advancement
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Phone: 732.238.1600 • Fax: 732.238.9113
E-mail: info@cfpa.com

www.cfpa.com

SAVE $200-Register & Pay by July 4

Granulation, Tablettting and Capsule Technology
August 15-18, 2016
Burlington, CA

Course Topics Include:
- Material Design and Characterization
- Mixing/Handling/Segregation Prevention
- Wet and Dry Granulation
- Material/Functional Ingredients
- Formulating for Tablet and Capsules
- Coating Process/Formulation/Troubleshooting
- Modified Release
- New Trends in Products/Processes/Regulations
- Special focus on Nutritional Supplement Regulations

Directed by:
Dr. Cecil W. Propst
Vice President Scientific Affairs
Team Engineering Services, Kamazomo MI
Who Should Attend

This broadly based course is intended for all scientists and technologists concerned with the development and processing of tablets, capsules and similar products, and with related drug regulatory affairs.

The material will be presented in such a way as to be of value to a varying level of expertise. This course will especially benefit those in:

- Quality Assurance
- Validation
- R&D
- Manufacturing/Production
- Regulatory Affairs
- Engineering Support

Note: Persons seeking an in-depth treatment of only one or two of the major topics of this broadly based program may wish to consider alternative, more specialized courses offered by CFPA in this area of technology.

Learning Objectives

Upon completion of this course, you will be able to:

- Describe the basic design, development and processes involved in the manufacture of contemporary tabletted and encapsulated products

Course Description

The main aim of this course is to review the science relating to tabletted and encapsulated pharmaceutical products. The course begins with a consideration of raw material testing and the basic aspects of powder and granulation technology, progresses through formulation of solid dosage forms to manufacturing processes and equipment including scale-up and technology transfer. The program concludes with key aspects of the evaluation of finished products and the regulatory constraints that must be considered at each stage.

Formal sessions of the course are supplemented with informal discussion periods between lecturers and course participants and problem-solving sessions are held on both an open and private basis.

Granulation, Tablettting and Capsule Technology

Course Outline

First Day

8:00 a.m.: Registration/Continental Breakfast
8:30-8:45 a.m.: Introductions and Course Overview/Review of Learning Objectives
8:45-9:45 a.m.: Relevant Properties of Powders: Characteristics and properties of single particle: Bulk properties; Particle to particle interaction: Sizing
11:15-12:15 p.m.: Mixing and Blending of Powders: Strategies; Mixing: Mixing designs; Types of mixing equipment; Minimizing segregation tendencies
1:15-2:15 p.m.: Morphology of Powders: Particle size analysis: Specific surface area: Porosity: Particle shape
2:30-3:30 p.m.: Basic Principles of Tablettting: Mechanical properties of powdered solids: Basic principles of the tablettting process: Studying important tablettting variables
3:45-4:45 p.m.: Pharmaceutical and Nutritional Excipients Types and their properties: Selection of excipients: Binders/wet and dry; Fillers
Second Day

8:30-8:45 a.m.: Pharmaceutical and Nutritional Excipients (continued): Diluents, Wetting agents; Anticaking agents; Glidants; Lubricants
10:15-11:15 a.m.: Wet Granulation and the Drying Process: Reasons for granulation: Types of processes and equipment: Granule structure and it’s importance: High shear: Low shear granulation process setup and troubleshooting
11:30-12:15 p.m.: Wet Granulation and Drying (continued): Fluid bed granulation: Methods of drying: PAT; End point control of granulation and drying
1:15-2:30 p.m.: Development of Tablet Formulations: Designing and screening tablet formulations: Development of tablet formulations: Introduction to the tablettting process and equipment
4:00-5:00 p.m.: Focus on Nutritional Supplements: GMPs; Special issues: Problems: New standards, issues with formulation: assay and stability
Third Day

8:30-9:30 a.m.: Size Enlargement (Using Pressure): Basic principles of roll compaction: Available equipment and instrumentation: Alternative methods for size enlargement
9:45-10:45 a.m.: Non-Powder Capsules Products: Liquid filled capsules: Non-powder solids: Granule and pellet filling
11:00-12:00 noon: Coating of Oral Solid Dosage Forms: Overview of approaches to coating: Review of coating materials and formulation types
1:00-2:00 p.m.: Evaluation of Oral Solid Dosage Forms: Weight and content uniformity: Dissolution: Mechanical strength
2:15-3:45 p.m.: Tablettting Problems and Troubleshooting: Capping: Lamination: Lack of hardness; Sticking; Pilling and instrumentation of presses
4:00: 5:00 p.m.: Open Session (Short Topics)

Fourth Day

8:30-9:30 a.m.: Scale Up and Technology Transfer for Oral Solid Dosage Forms: Basic principles, Significance of SUPAC
9:45-10:45 a.m.: Coating Process and Troubleshooting: Overview of processing methodologies: review of coating processes and equipment: Troubleshooting (problem identification and resolution)
11:00-12:00 noon: Modified Release Coating: Types of modified release products: Enteric coating: Extended release: Review of release kinetics: Matrix tablets: Formulation approaches to extended release
1:00-2:00 p.m.: QbD and Risk Management in Oral Solid Dosage Forms: Product design: Parameter classification: risk management/elimination: Use of expandable DOEs in modeling: Design Space creation: Other Regulatory Concerns
Assessment Opportunity

Course Director

Dr. Cecil W. Propst is Director Scientific Affairs for Team Engineering Service, a formulation, and engineering support firm located in Kalamazoo MI. He was Director of R&D (Grand Haven site) at SRI Pharma until semi retirement in 2015. He served as Director of Quality Assurance and Technical Services at Pharming and Company, and before that, President of Manufacturing Chemists. His duties included system design, product and process development and regulatory affairs.

Previously, he served as cGMP Facilities Director for the University of Maryland at Baltimore, in connection with the University’s SUPAC contract with the FDA. Dr. Propst also served as Director of Technical Development for Stellar Manufacturing; Director of Quality Compliance for SmithKline Beecham; Director, Quality Assurance for Novartis Thayer (a Revlon Company); and Group Leader/Product Development and Manager/Quality Control for Lewis Howe Company. He also serves as a consultant in the area of product development and process investigations for the chemical, diagnostic, food, engineering and beverage industries.

Additional Faculty

Ms. Joy Joseph, Consultant to the Pharmaceutical Industry
Mr. Charles Cunningham, Technical Director, Caloncon Ltd.
Mr. Dilip Parikh, President and CEO of DPharma Group
Dr. Martin Thomas, Director, Science and Technology, Quantachrome

Course Location

This course will be held at the Embassy Suites San Francisco Airport. Participants must, however, make their own reservations; the cost of hotel accommodation is not included in the course fee. Hotel information will be included with your acceptance. For reservations please call 650.342.4600.

• Easy access to downtown San Francisco Bay Area attractions

Client Site

Training at your site and at your convenience. For further information, please contact Client Site Programs: Direct Dial (USA) +1/732.238.1600, ext. 4547; or fax +1/732.238.9113; or E-mail clients@cfpa.com.

Online Training Now Available

A convenient and cost-effective way to experience our accredited training, easily access the knowledge you need through the Internet. For a list of upcoming courses visit www.cfpa.com/online-training.