



CfPA

The Center for Professional Advancement
Accredited Technical Training Worldwide

ON-DEMAND Online Training Course Choosing Sensors, Monitors and Instruments for PAT Programs

Location: Your Computer

Offering # 0711-709

Priority Code: 520

WHO SHOULD ATTEND

This course is intended for people who are charged with evaluating and optimizing batch chemical processing, especially in regulated environments. PAT programs for pharmaceutical production, natural products, cosmetics and nutritionally-regulated foods, such as infant formulas, will all benefit from this offering.

- Pharmaceutical production personnel, especially in PAT or quality-enhancement programs
- Process optimizers
- Formulators
- Chemical instrumentation engineers
- Analytical instrument users and support personnel

LEARNING OBJECTIVES

Participants will learn to evaluate "DRIP" vs. "DPIR" (Data Rich, Information Poor vs. the opposite) sensors. Decision-making criteria for at-line and on-line instrument deployment, and selection of "Genius" and "Idiot Savant" instruments will be covered. The course includes methods for comparing sensing approaches.

COURSE DESCRIPTION

Pharmaceuticals are, by and large, made via batch processes. Sensing controlling and optimizing these unit operations requires instruments that deliver highly specific and definitive information. At-line and on-line devices may serve equally well. Successful deployment may require information at the expense of data. This course provides guidelines for sensor selection and use.

Module 1:

- Use what you know: Do current methods meet criteria?
- Examining "DRIP" and "DPIR"
- Matching instrument data parameters with process needs
- Reducing variation stepwise

Module 2:

- Chemical or physical information, or both?
- Conformity and consistency
- Switching from instrumental data to control charts
- Multiple sensor deployment

Module 3:

- "Swarm of Gnats" sensor use
- Dynamic calibration
- Validating a process sensor: Process signatures
- Training requirements

ACCREDITATIONS



The Center for Professional Advancement has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 8405 Greensboro Drive, Suite 800, McLean, VA 22102. In obtaining this approval, The Center for Professional Advancement has demonstrated that it complies with the ANSI/IACET Standards which are widely recognized as standards of good practice internationally. As a result of their Authorized Provider membership status, The Center for Professional Advancement is authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standards.

REGISTRATION

TUITION* - **Single Rate: U.S.\$99.00 per person** **Group Rate: U.S.\$99.00 per person****

Register at www.cfpa.com. Enter **Course Offering #0711-709** into **Quick Jump**. To register use **Priority Code: 520**. For Questions and Information call Customer Service at 732-613-4500.

Please Note: Multiple participants are not authorized to share access provided to a single registrant, a single dedicated seat license must be purchased for each individual. CfPA reserves the right to cancel access or collect the group rate payment if this requirement has been violated. Only registered participants will receive accreditation.

ABOUT ON-DEMAND:

Our pre-recorded on-line training courses are available for viewing at your convenience at your computer. Register for a CfPA on-demand course, your registration will be processed within two (2) business days, after payment and registration are complete you will receive an email from olinetraining@cfpa.com with your password to access the on-demand course. You will have two (2) business days to view the course. You MUST complete all polls and the course evaluation to receive your accreditation certificate for this course.

TERMS AND CONDITIONS

***Payment:** Tuition payable in US funds net of all charges. Payment is due at time of registration in the form of a credit card. Please contact CfPA's Customer Service for other payment options.

****Group Rate:** The Group Rate is for two or more enrollments, up to five registering from the same company at the same time. For groups of six or more, please contact Customer Service for group pricing. **Cancellations/No Show: "Live"** - Registrants may cancel up to two working days prior to the course start date and will receive a letter of credit to be used towards a future course up to one year from date of issuance. No credit will be issued for no-shows and/or cancellations less than two working days prior to the course. : **"On-Demand"** - No refund or credit will be issued for no-shows and/or cancellations of on-demand training courses. CfPA is not responsible for any outside related costs incurred by registrant's cancellation.