



Aerosol Technology 101

Product Design and Development

DIRECTED BY

Kyle Butz, Owner of Spray Analytics Inc. **and Dennis Smith,** President of the Eastern Aerosol Association



COURSE

- History of Aerosol Packaging
- Cans & Valves
- Regulations
- Sustainability

- Product Development
- Filling and Propellent Considerations
- Product Testing
- Understanding Consumer Feedback

about the course

Aerosols are a unique product form, utilized in an array of industries, that require a thorough understanding of the technology before acceptable formulations can be developed for consumer use. While traditional aerosol products have been around for many years, recent developments in propellants, valve systems, and packaging innovations have opened up new opportunities for new product offerings.

This 9-hour fully accredited course will focus on the building blocks of aerosol product development. Beginning with the history of aerosol packaging and navigating through aspects such as product testing and consumer feedback, this course will cover the life cycle of aerosol product development. Ample discussion opportunities will cover the depths of aerosol regulatory parameters, sustainability approaches, and more.

Live attendees will have the option to directly ask questions to the instructor. A webcam, microphone, and speakers/headset are highly encouraged for maximum participation capability.



who should attend

This course is intended for individuals who have a responsibility in the product development of aerosol products found within the pharmaceutical, cosmetic, household care, and food industries

This course will be especially valuable for personnel within the following areas:

- Chemist
 - Regulatory
- Engineer
- Research and Development

learning objectives

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

- Explain the history of aerosol and restate the basic terminology relating to the aerosol industry
- Compare and contrast aerosol packaging choices for product development
- Describe how and where to find current regulatory restrictions
- Analyze test data with consumer data to optimize product development

course outline

Review of Learning Objectives

Module 1

History of Aerosol Package

- Aerosol Terminology
- Cans
- Valves

Module 2

Regulatory

- Sustainability
- Product Development Introduction

Module 3

Filling and Propellent Filling Considerations

- Product Testing
- Understanding Consumer Feedback

Question and Answer Session

Assessment Opportunity

co-course instructor

Kyle Butz is the owner of Spray Analytics Inc., a contract testing and consulting company focused on measuring and understanding sprays. Since starting Spray Analytics, Kyle has been exposed to countless spray applications and helped clients understand how to generate and use data to best optimize their products or processes. Connecting analytical data to product performance within an application space and understanding consumer expectations is a primary focus of Spray Analytics. Prior to Spray Analytics, Kyle worked as an application specialist with Malvern Instruments (Malvern Panalytical) working extensively with droplet-size applications including aerosol products.

Dennis Smith is currently the President of the Eastern Aerosol Association. Dennis has over 40 years of experience in the industry, working for component suppliers and fillers. He has worked on aerosol projects in the capacity of Lab Technician, Technical Sales, Director of Package Development, Owner of Dennis Smith Consulting, and VP of Sales at Pacific Bridge Packaging. Dennis has spoken at National and Regional associations on subjects including The Aerosol Package, Aerosol 101, Can Technology, Recycling, Aerosol history, and education. Dennis has taught, as a guest lecturer, Aerosol Packaging at the Rutgers Packaging Program.



Accreditations

International Accreditors for Continuing Education and Training (IACET)

Cobblestone has been approved as a CEU Accreditor by IACET and awards CEUs for participation in qualified courses. Cobblestone has demonstrated that it complies with the ANSI/IACET Standards and is authorized to offer IACET CEUs for its programs. CEUs will be awarded for participation in Cobblestone'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. A minimum score of 80% is required for all courses within a Cobblestone Certification Program. This course offers a total of 9 contact hours or .9 CEUs. For further information, visit www.iacet.org



Regulatory Affairs Professional Society (RAPS)



Cobblestone is committed to enhancing the ongoing professional development of regulatory affairs professionals and other stakeholders through appropriate regulatory affairs learning activities and programs. Cobblestone has agreed to follow RAPS- established operational and educational criteria. This course may be eligible for up to 12 credits towards a participant's RAC recertification upon full completion. The requirements and standards for recertification are developed and administered by the Regulatory Affairs Certification Board (RACB), which manages all areas of the RAC program. Additional information about RAC is available on the RAPS website at RAPS.org/rac

