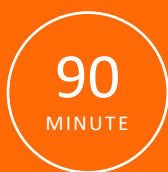


Polymers in the Personal Care Industry

Classification, Chemistry and Applications

DIRECTED BY

Eric Abrutyn — Founder TPC2 Advisors Ltd., Inc., consultants to the personal care industry



ACCREDITED
COURSE

Course Topics Include:

- Categorization of Polymer Science
- Polymer Chemistry and INCI Designation
- Connecting polymer categorization to functional application and benefits
- Future Trends

about the course

The unique chemical properties of polymers can be customized to meet various product needs, making them a valuable addition to personal care products. However, with numerous polymers available, it's crucial to determine which ones are suitable for achieving specific product characteristics.

This 90-minute accredited online training course delves into the diverse classification of polymer chemistry. By understanding the various categories and their functionalities, participants can better appreciate the nature of polymer science and learn how to apply them to personal care product development. The course covers topics such as molecular weight, branching, crosslinking, and functional substituents, examining how these factors can enhance physical properties and functional benefits in different cosmetic applications.

who should attend

This 90-minute webinar will provide basic understanding of polymer chemistry, the similarities and differences, their functionality and how to best utilize this science to produce a better product.

It will be especially valuable to personnel in the Cosmetic and Personal Care Industry within the following areas:

- | | |
|---------------------------|---------------------|
| • Formulation Development | • Technical Service |
| • Sales | • Marketing |

learning objectives

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

- List the different categories of polymer science
- Explain the correlation of polymer chemistry and INCI designation
- Describe the connecting polymer categories and functional application
- Outline how to apply them to formulations
- Give a synopsis of the future trends for polymer chemistry

course outline

Review of Learning Objectives

Module 1

- Defining and categorizing polymers
- INCI Polymer nomenclature

Module 2

- Connecting polymer chemistry and functional application

Module 3

- Commercial examples to demonstrate how to utilize benefits of polymers
- Future trends in polymers

Question and Answer Session

Assessment Opportunity

course instructor

Eric Abrutyn, retired Sr. Principal Scientist from Kao Brands and founder TPC2 Advisors Ltd., Inc., consultants to the personal care industry.

Eric Abrutyn is a graduate of New York University-New Paltz with a master's in chemistry and of C.W. Post College/Long Island University with a B.S. in Chemistry. He has over 45 years of experience in the personal care cosmetics industry.

Prior to starting his own consulting firm – TPC2Advisor's Ltd., Inc. – Mr. Abrutyn was involved in innovation for over 50 years. Starting out as R&D Director at Wickhen Products Inc., developing new classification of emollient esters, antiperspirant actives, and controlled release polymer entrapment technology. Eric then worked for many years in the field of Functional Siloxane technology and application before moving to a consumer goods company where he focused on innovative development at Kao Brands - involved in reinventing the Curel® and Ban® brands before working on innovative technology for the John Frieda brands.

TPC2Advisor's Ltd., Inc., is focused on utilizing Mr. Abrutyn's extensive and diverse experience to support clientele in the areas (1) antiperspirant technology, (2) siloxane polymer technology (3) skin and hair care formulation (5) Personal Care Cosmetic labeling (6) Technology Strategic planning and Ideation, and (7) Expertise witness support.

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 1.5 contact hours, or .2 CEUs. For further information, visit www.iacet.org

The American Institute of Chemists (AIC)

The National Certification Commission in Chemistry and Chemical Engineering was formed in 1977 to recognize practitioners who strive to maintain their professional competence through participation in continuing education. The program encourages various means by which practitioners can maintain and improve their skills. It also serves as a vehicle for formally recognizing educational programs and other professional related activities that are dedicated to advancing the chemical scientist's or engineer's current competence in his/her discipline.