COBBLESTONE

COURSE ID 3048

REVISED!

Sunscreens Basics: From Theory to Practice

DIRECTED BY

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90 MINUTE

ACCREDITED COURSE

- UV Damage
- DNA Damage and Erythema
- SPF, PA
- Critical Wavelength
- Sun filters and Sunscreens
- UV Absorption
- Antioxidants

about the course

In the Cosmetic and Personal care market, almost everyday creams claim to offer a sun protection factor or SPF, and body products for summer holidays claim high SPF numbers. In the U.S. the sun-filters (UV absorbing molecules) are listed on a positive list, they are considered drugs that can be sold over the counter (OTC), and their claims (protection against sunburn, skin cancer, and skin aging) are regulated by the FDA.

In this 90-minute accredited online session, we will review the concept of Sun Protection, SPF, PA, broad spectrum protection, and critical wavelength. We will provide information about the key parameters playing relevant roles in the achievement of the SPF/PA values of a topical product. We will discuss the use of UV-absorbing material for anti-inflammatory agents and antioxidants directly.

Since this training is highly interactive, those attending the live training event must have a webcam on their computer as well as a microphone and speakers/headset to fully participate.

who should attend

This course is intended for professionals in the cosmetic and personal care industry, pharmaceutical skin care, and skin care-related medical devices. It will be especially valuable for:

- Professionals with a background in Biology and Dermatology who wish to strengthen their knowledge of how to avoid UV-induced damage
- Formulation chemists committed to the preparation of SPF/PA products
- Professionals committed to Marketing/Sales/Product Development and Communication

learning objectives

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

- Review the concept of SPF and PA (broad spectrum, UVA protection) and of critical wavelength
- List the relevant parameters playing a role in the achievement of a given SPF
- Describe experimental examples to illustrate their role
- List possible ways to improve the SPF value of a product
- Create a guideline to select surfactants and excipients for best results

course outline

Review of Learning Objectives

Module 1

- Physics and Biology of UV radiation

Module 2

- Protecting against UV radiation.
- Action Spectrum, MED, SPF, PA

Module 3

- Formulating Sunscreens
- Parameters affecting the absorption of UV by formulated topically applied sun filters

Module 4

- Legislation, critical wavelength, testing, safety, legitimate and illegitimate ways to improve SPF value of a topical product

Question and Answer Session

Assessment Opportunity

course instructor

Dr. Paolo Giacomoni is an independent consultant to the Skin Care industry. He is a quality-focused leader with over 25 years of experience in product research and development for cosmetic product providers. He is presently Head of R&D with L-Raphael, Geneva, Switzerland. He was Chief Scientific Officer of Elan Rose International. He served as VP of Skin Care Worldwide R&D with Herbalife. He was Executive Director of R&D with Estee Lauder and served as scientific spokesperson for Clinique. During his tenure at L'Oreal, he served as Head of the Department of Biology and then as scientific attaché to the Director of Applied Research. In his academic years, he was Maître de Conférences at the University of Paris, France, and a Visiting Professor at the University of Milano, Italy.

Dr. Giacomoni is presently Editor-in-Chief of the Journal of Cosmetic Science and served in this function for the years 2017-2020.

Dr. Giacomoni is fluent in French, Italian, German, Spanish, and English and is the author of 100+ publications and patents representing breakthrough industry concepts. He received his Ph.D., in Biochemistry from the UNIVERSITY of PARIS, Paris France; his Master's Degree in Atomic Physics from the UNIVERSITY of MILANO, Milano, Italy and has had Post-Doctoral Training at Deutsches Krebsforschungszentrum at Heidelberg, Germany, at the University of Wisconsin, Madison, WI and at the University of California, San Diego,

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