Waterborne Coating Technology and Trends: Formulation and Application (CP-6626-V)

This highly interactive course specifically deals with waterborne resin technology, waterborne coating technologies, and their formulation and properties. The resin chemistries used in architectural, industrial, automotive and related areas will be discussed in detail. Material classification, properties and starting point formulation using the most recent approaches of *Rational Formulation* for each industry will be developed and discussed, and performance criteria will be explained.

WHO SHOULD ATTEND?

This course is designed to provide technical information for paint formulators and manufacturers, industry suppliers, and users of coatings and paint at all levels. It is specifically recommended for chemists, formulators, raw material suppliers, processes, design and specification engineers, and quality control personnel.

WHAT YOU WILL LEARN:

- Gain an overall understanding of water-based resin and coating chemistries and formulations.
- Become familiar with the concept and application of the *Rational Formulation* approach.
- Receive unbiased technical information on properties of raw materials, resins, and coatings.
- Gain in-depth knowledge of current waterborne polymers, coating technologies, and future trends.
- Obtain the latest technical information and receive *Rational Formulation* guidelines.

Virtual Course Outline

- Waterborne resin chemistries, types, and properties.
- Guidelines and properties of resin selection for architectural, industrial, and automotive coatings.
- Emulsion polymerization technologies, latex resin varieties and properties.
- Film formation and cure of waterborne coatings.
- Formulating architectural, industrial, maintenance, and automotive coatings.
- Polyurethane, melamine/formaldehyde, epoxy, alkyd and air-dry technologies.
- Adhesion of waterborne coatings.
- Durability and performance of waterborne coatings.

Virtual Course Details

- The virtual course will be presented through live Microsoft Teams sessions. Participants may attend from either home or office, and will require a computer with a microphone and webcam.
- Participants must attend 100% of all sessions to receive an electronic certificate of completion.
- Scheduled course times are Eastern Standard Time (EST).
- Private questions/consulting sessions maybe scheduled by attendees during the designated hours.
- **All training materials (slides) will be available for download.**