Best Technology Solutions (BTS)

Advanced Protective Coatings Specialist PCS 2 Training program

Introduction:

This course provides advanced level technology topics related to protective coatings. Highlights include an in-depth discussion of coatings, their basic chemical properties and any unique considerations for their surface preparation, application and inspection. Testing coating properties and performance, common coating defects, substrates, selecting coating systems, the specification, and surveys and maintenance planning are also covered.

Who Should Attend?

Planning, engineering, technical and supervisory level personnel who work with protective coatings on a regular basis, Specifiers, maintenance and project engineers in all industries, Marketing representatives of coatings materials or equipment, Unit managers involved in corrosion control

Course Objectives:

By the end of this course delegates will be able to:

- Recognize uses of coatings and linings, best practices and external factors that influence their use
- Understand the difference between organic and inorganic coatings
- Recognize the uses and benefits of convertible coatings
- Understand specialty coating types, advantages/disadvantages, and standards that govern them
- Discuss coating characteristics including the basic chemistry and unique characteristics that affect surface preparation and application needs

- Perform common test and qualification methods for liquid-applied coatings
- Recognize the chemistry of non-liquid and liquid applied coatings
- Understand the various types of tests performed on coatings and identify coating defects
- Understand substrate surface preparation issues and industry standards, configuration types, and factors affecting their coating application
- Develop a complete and unambiguous coating specification.
- Set coating system selection goals, objectives, performance requirements, design engineered properties and trade-offs
- Select an appropriate test to determine the condition of the substrate
- Select an appropriate test to determine the condition of the existing protective coating system

Course Outline:

- Use of coatings and linings, best practices and external factors that influence their use
- Chemistry of liquid applied coatings and coating formation chemistry
- The difference between organic and inorganic coatings
- Coating characteristics including the basic chemistry and unique characteristics that affect surface preparation and application requirements
- Common test and qualification methods for liquid-applied coatings
- Chemistry of non-liquid coatings
- Unique application and quality control methods for non-liquid coatings
- Testing coating properties and properties
- Coating defects
- Various common substrates (metal and cement), their unique surface preparation needs and the standards that govern them
- Coating system types, system selection goals, performance requirements, design engineered properties and trade-offs

- Understanding coating specifications
- Eliminating ambiguity
- Proper implementation
- Identifying shortcomings
- how departures from the specification can impact coating life
- Understand industry standards and their role in specifications
- Coating surveys and maintenance programs