

CIP Level 1 Course

Classroom instruction is comprised of lectures, group exercises, case studies and hands-on practical labs. Students will also participate in real-life inspection projects that are designed to apply course concepts to the job site by focusing on inspection procedures and proper instrument use, situation problem solving, inaccurate specifications and strengthening the relationship between the inspector and other team members.

Learning objectives

- Recognize how corrosion forms and the role protective coatings play in preventing corrosion
- Describe the role of the inspector as it applies to responsibilities, authority, safety, ethics, communication, and decision-making
- Differentiate surface preparation equipment, methods, and standards for solvent cleaning, hand/power tool cleaning, wet/dry abrasive blasting, and waterjetting
- Identify quality control issues, recognizing design and fabrication defects and coating failure modes
- Compare and contrast different generic coating types, modes of protection and curing mechanisms
- Differentiate coating application by type, including brush, roller, airless, conventional, and plural component spray
- Utilize job specifications, safety/product data sheets and a variety of inspection report documentation including NCRs, daily reports and inspection test plans
- Perform non-destructive inspection procedures for environmental conditions, visible/nonvisible contaminants, surface profile, film thickness, and holiday detection under the supervision of a qualified inspector
- Comply with the AMPP Coating Inspector Code of Conduct

Course completion

To receive a training Certificate of Completion and continuing education units (CEUs) students must attend the entire course and successfully pass each learning assessment, including the hands-on practical exam given on the last day of class.

CIP Level 2 Course

Classroom instruction is comprised of lectures, discussions, group exercises, and hands-on labs. Students will also participate in case studies based on real-life situations that focus on problem solving and team dynamics related to the inspection process.

Learning objectives

- Explain advanced corrosion theory as it applies to the role of cathodic protection when used with coatings
- Identify types of environmental controls and inspection concerns associated with the use of digital electronic hygrometers, data loggers, and wind speed monitors
- Identify standards, methods of use, and inspection concerns for centrifugal blast cleaning and water-jetting equipment
- Recognize the importance of surface preparation, application, and inspection of liquid-applied and thick barrier linings
- Utilize destructive coating inspection equipment, such as adhesion and hardness testers, pH meters and ultrasonic thickness and eddy-current dry film thickness gauges
- Recognize the methods of use, standards, and inspection concerns for specialized application equipment including plural-component, electrostatic and centrifugal, and hot spray systems
- Recall concrete coating techniques, concerns and test instruments used for inspection
- Identify specialized coating techniques and application of non-liquid coatings including powdered coatings, spray metalizing, hot-dip galvanizing and automated coatings application
- Distinguish between different coating survey techniques, procedures, and common coating failure modes
- Describe maintenance coating operations, as well as health and safety concerns in relations to the inspector's work conditions

Course completion

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