

# Coating Inspector Program Level 1 (CIP 1)

**6-Day Classroom Course: Days 1–5:** 8 a.m. to 6 p.m. • **Day 6:** 8 a.m. to 3:30 p.m.  
**4.9 CEUs**

CIP Level 1 covers the technical and practical fundamentals of coating inspection work. Students will be prepared to perform basic coating inspections using non-destructive techniques and instrumentation. This course provides students with knowledge and application of coating materials, along with techniques for surface preparation.

Classroom instruction is comprised of lectures, discussions, group exercises and hands-on practical labs.

## Who Should Attend

Although specifically designed for coating inspector trainees, this course benefits anyone interested in gaining a better understanding of coatings application and inspection. This includes:

- Program/project managers and engineers
- Quality assurance/control managers
- Contractors and specification writers
- Coating manufacturers and technical sales representatives
- Fabricators
- Paint applicators and blasters
- Maintenance personnel

## Prerequisites

### Required

There are no required prerequisites for this course.

### Recommended

- Introduction to Coating Inspection (ICI) e-Course
- Industrial Coating Application e-Course (ICA)
- Math for the Coatings Professional e-Course
- Basic Corrosion or Basic Corrosion e-Course

## Learning Objectives

- Give examples of corrosion fundamentals such as properties of a coating, coating classification and modes of protection
- Recognize coating types and curing mechanisms
- Recall coating specifications including service environments and coating life cycle
- Differentiate surface preparation equipment, methods, and standards for abrasive blasting, solvent cleaning, and power and manual tool cleaning
- Differentiate coating application by type, including brush, roller, mitt, and conventional and airless spray
- Demonstrate inspection procedures
- Describe the role of the inspector as it applies to safety, ethics, conflict prevention, and decision-making
- Test for environmental or ambient conditions and nonvisible contaminants
- Utilize non-destructive test instruments such as wet-film and dry-film thickness gauges and low and high voltage holiday detectors
- Measure surface profile using replica tape and anvil micrometers, surface profile comparators, and digital surface profile gauges
- Identify quality control issues, recognizing design and fabrication defects and coating failure modes
- Utilize Safety Data Sheets (SDS) and product technical data sheets
- Demonstrate the purpose and content of Logbook and report documentation

## End of Course Exam

A practical exam is administered at the end of the course. Successful completion of the exam is required to earn a certificate of completion.

## Certification Exams

NII certification requirements\* include the practical exam administered at the end of course, along with an exam delivered via computer-based testing (CBT).

The multiple-choice CBT exam is scheduled separately from the course and delivered via Pearson VUE. A voucher needed to schedule the CBT exam is included as part of your initial course registration.