

Cathodic Protection 4 - Specialist (CP4)

6-Day Classroom Course: Day 1: 1 p.m. to 7:30 p.m. **Days 2-5:** 8 a.m. to 7:30 p.m. **Day 6:** 8 a.m. to 5 p.m.

5.3 CEUs

The CP 4 – Cathodic Protection Specialist course focuses on the principles and procedures for CP design on a variety of structures for both galvanic and impressed current systems. The course discusses theoretical design concepts, considerations that influence the design (environment, structure type/materials of construction, coatings), design factors, and calculations (including attenuation).

Classroom instruction is comprised of lecture, in-class discussion, and practice with design calculations on various structures (i.e., pipelines, tanks and well casings, offshore applications, and steel reinforcing in concrete structures).

Who Should Attend

Individuals with experience in CP systems including:

- Design
- Installation
- Maintenance

Prerequisites

Required

There are no prerequisites for this course.

Recommended

- Cathodic Protection 3 – Technologist or equivalent training
- To be successful in this course, it is strongly recommended that students have completed college or university-level courses in algebra, geometry, and trigonometry, and have significant practical experience in CP design.

Learning Objectives

- Design complete CP systems in a variety of industry applications including water tanks, aboveground and underground storage tanks, and pipelines
- Demonstrate knowledge of rectifier and ground bed installation, along with source code calculations and protective coatings
- Perform corrosion analysis on the job site
- Manage and direct field tests
- Apply new technologies to existing CP programs
- Provide formal training to understudies on basic and advanced CP concepts
- Recall and comply with codes, regulations, reporting procedures, and standard practices

End of Course Exam

An essay-based exam is administered at the end of the course. Successful completion of the essay-based exam is required to earn a certificate of completion.

Certification Exams

NII certification requirements* include the essay-based 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.