

# 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.