

# Cathodic Protection 2 - Technician (CP2)

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

**4.5 CEUs**

The CP 2 – Cathodic Protection Technician course provides intermediate-level training in both theoretical knowledge and practical techniques for testing and evaluating data to determine the effectiveness of both galvanic and impressed current CP systems and to gather design data.

Classroom instruction is comprised of lectures and hands-on training, including using equipment and instruments for CP testing.

## Who Should Attend

This program benefits anyone responsible for supervising CP systems, measuring the effectiveness of CP systems, and/or recording this data, including:

- CP field personnel
- Technicians

## Prerequisites

### Required

A comprehensive knowledge of electrochemistry, electricity, electrical laws, series and parallel circuits, meter operation, and CP fundamentals are necessary for understanding the material in this course.

### Recommended

- In-depth high school chemistry and mathematics courses
- Basic Corrosion or Basic Corrosion e-Course
- Cathodic Protection 1 – Tester or equivalent training
- Cathodic Protection Fundamentals: Math & Electricity e-Course

## Learning Objectives

- Perform advanced field tests (including current requirement test, shorted casing test, IR drop test, soil resistivity, and interference tests) and evaluate the results
- Perform tests to verify the presence of stray current interference and recommend method(s) to mitigate the interference
- Conduct and understand the importance of periodic surveys, including IR-Free readings, polarization decay tests, and current measurements
- Maintain documentation and records, including data plotting and analysis
- Describe AC voltage and the methods of mitigation
- Test and troubleshoot rectifier component parts
- Define the purpose and uses of corrosion coupon test stations
- Recall the code requirements related to CP

## 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.