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Cathodic Protection Fundamentals: Math & Electricity e-Course

2 PDHs

Walk into the cathodic protection classroom or field with a strong math, electricity, and chemistry foundation gained from this course. This course provides a thorough review of basic math, chemistry, and electrical fundamentals through step-by-step examples, self-study practice problems, and downloadable job-aids.

This 2-hour short course includes audio narration with transcripts and on-demand viewing and bookmarking capabilities that enable you to complete the course as your schedule allows.

Who Should Attend

Anyone in the cathodic protection industry who needs to understand the calculations and electrical functions involved when working in cathodic protection. This course also serves as a solid prep for CP1 or a great review before CP2.

Prerequisites

No prior training or experience is required, however the ability to perform math calculations using a scientific calculator (algebra, fractions, exponents, and conversions) is recommended.

Exam

Students will earn a certificate of completion upon successful completion of the e-Learning course.

Learning Objectives

Math Principles

- Add and subtract fractions
- Calculate exponents
- Convert fractions to decimals and decimals to fractions
- Convert decimals to percentages and percentages to decimals
- Use the order of operation rule when completing equations

Basic Electricity & Electrical Fundamentals

- Define electricity
- Define current, resistance, voltage, and power
- Understand the relationship amongst current, resistance, voltage, and power
- Comprehend basic electrical diagrams
- Apply Ohm's Law to calculate current, resistance, and voltage
- Convert electrical units of measurement
- Contrast and compare series and parallel circuits
- Solve basic problems and calculations for series and parallel circuits

Cathodic Protection 1 - Tester (CP1)

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

4.5 CEUs

The CP 1 – Cathodic Protection Tester course provides 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

There are no prerequisites for this course.

Recommended

- High school diploma or GED
- 6 months' CP work experience
- Ability to perform basic math calculations (simple algebra, fractions, and conversions)
- Basic Corrosion or Basic Corrosion e-Course
- Cathodic Protection Fundamentals: Math & Electricity e-Course

Learning Objectives

- Recall the basics of electricity, electrical laws, electrochemistry, corrosion, and CP theory
- Define how polarity is related to current flow and metal corrosion activity
- Conduct tests to identify shorts and continuity tests in CP systems
- Use test instruments to perform a variety of field tests such as structure-to-soil potentials, voltage and current measurements, soil resistivity, pipe/cable locating, and rectifier readings
- Define CP components including impressed current systems, galvanic anodes, and test stations
- Read shunts and recognize their use in rectifiers, bonds, and anodes
- Perform periodic surveys to confirm the effectiveness of a CP system
- Recall the use, maintenance, and precautions for reference cells
- Utilize basic location mapping, report preparation, and recordkeeping
- Recognize safety issues specific to CP
- Recall 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.

*For complete certification options and requirements, see page 45.

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

NACE 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.

*For complete certification options and requirements, see page 45.



Stevyn Shen, NACE CP2 Certified, Pipeline Integrity Engineer-In-Training at Providence Corrosion Ltd, Calgary, Alberta, Canada

Cathodic Protection 3 - Technologist (CP3)

6-Day Classroom Course: Day 1: 10 a.m. to 6:30 p.m. **Days 2-5:** 8 a.m. to 6:30 p.m. **Day 6:** 8 a.m. to 5 p.m.

5.1 CEUs

The CP 3 – Cathodic Protection Technologist course builds on the technology presented in the CP2 course with a strong focus on interpretation of CP data, trouble shooting and migration of problems that arise in both galvanic and impressed current systems, including design calculations for these systems.

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

Who Should Attend

Individuals with extensive CP field experience and a strong technical background in cathodic protection.

Prerequisites

Required

A strong algebra background, with thorough understanding of unit conversions and scientific notation, is required as a minimum mathematics prerequisite.

Recommended

- Cathodic Protection 2 – Technician or equivalent training
- A basic understanding of trigonometry and geometry is recommended.

Certification Exam

An essay exam is administered at the end of the course.

The multiple choice written exam is delivered via computer-based testing, which is scheduled separately from the course. A voucher for the computer-based test is included as part of your course registration.

*For those who meet the requirements, NII certification options are available. See page 47 for details.

Learning Objectives

- Define activation, concentration, and resistance polarization, and the mathematical expressions of these concepts
- Recall the factors that affect polarization (area, temperature, relative movement, ion concentration, oxygen concentration)
- Apply the NACE criteria for CP and make necessary adjustments
- Identify errors in data collection/CP measurements including contact resistance errors, voltage drop errors, and reference electrode errors where the technologist is employed
- Determine ideal current distribution for a CP system taking into account the factors affecting current distribution
- Perform advanced cathodic protection testing using correct measurement techniques to monitor CP system performance, accurately interpret the data collected to ensure optimum CP system performance and determine the correction action to the system if necessary
- Conduct and document interference tests to determine if interference exists, and identify the source of the interference and implement a method of control to mitigate the effects of stray current
- Design and install simplistic forms of galvanic and impressed current cathodic protection facilities and perform the necessary mathematical calculations

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.

*For those who meet the requirements, NII certification options are available. See page 48 for details.



Cathodic Protection Virtual Training Simulator

This 12-station virtual training simulator allows students to refresh their CP skills, keep up with current practical techniques, and prepare for their CP classes and exams by working through step-by-step, real life testing scenarios.

Who Should Attend

Anyone looking for a computer simulation to practice their cathodic protection field (practical) skills.

Prerequisites

Required

No prior training required.

Recommended

Cathodic Protection 1 – Tester

Learning Objectives

Station 1: Measuring Structure-to-Electrolyte Potential

- Identify each of the test wires (structures) by obtaining structure-to-electrolyte potential measurements using a multi-meter and reference electrode.

Station 2: Casing and Carrier Pipe-to-Electrolyte Potential

- Identify each of the test wires (structures) by obtaining structure-to-electrolyte potential measurements using a multi-meter and reference electrode.

Station 3: Soil Resistivity Measurements

- Use the equipment provided, obtain soil resistivity measurements using the Wenner 4-pin method, the Soil Box method, and the Collins Rod.

Station 4: Metallic Submersion Board

- Use metals identified as the reference, measure and record the structure-to-reference potential and build a practical galvanic series.

Station 5: Electrical Isolation Testing

- Determine the location of the isolating flange short(s) and determine the effectiveness of underground isolating unions.

Station 6: Current Shunt Measurements

- Use shunts to measure a millivolt (mV) drop across the shunt pins and calculate the current by utilizing ratio, Ohm's Law or shunt factor.

Station 7: Electrical Circuits

- Measure the resistance of resistors, connect resistors in parallel with the voltage source, and measure the course voltage.

Station 8: Current Interrupter

- Determine if your structure is adequately cathodically protected by using a current interrupter to obtain "on" and "interrupted" structure to soil potential measurements.

Station 9: Rectifier Measurements

- Record information from the rectifier data provided and perform a diode check.

Station 10: Polarity Board

- Measure and record the potential differences between each pair of banana jacks and use the data gathered to order the banana jacks from the most negative to the least negative polarity.

Station 11: UST Test Station

- Estimate which of the structures provided may be electrically continuous or shorted, by taking potentials to a single cell position (fixed cell) and measure the structure-to-electrolyte potential of each structure provided.

Station 12: Calculation Station

- Convert potential measurements and apply electrical theory.

Cathodic Protection Technician (CP2) Maritime

6-Day Classroom Course: Day 1: 1 p.m. to 6:30 p.m. **Days 2-5:** 8 a.m. to 6:30 p.m. **Day 6:** 8 a.m. to 3 p.m.
4.8 CEUs

This course presents cathodic protection technology with specific shipboard cathodic protection information. Developed for NAVSEA (part of the U.S. Navy), this intensive course presents both theoretical knowledge and practical techniques for testing and evaluating data to determine the effectiveness of both galvanic and impressed current CP systems pertaining to shipboard cathodic protection.

Classroom instruction is comprised of lectures and using equipment and instruments for CP testing.

Who Should Attend

Individuals who work in the maritime industry, have a working knowledge of shipboard cathodic protection, or have extensive years of CP field experience with a technical background.

Prerequisites

Required

There are no prerequisites for this course.

Recommended

- NACE CP Tester Certification or equivalent training
- Comprehensive knowledge of electrochemistry, electricity, electrical laws and series and parallel circuits, meter operation, and CP fundamentals
- Basic Corrosion or Basic Corrosion 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 for mitigation
- Test and troubleshoot rectifier component parts
- Recognize the purpose and use of corrosion coupon test stations
- Recall code requirements related to CP

Certification Exam

An open book written exam and a closed book practical exam are administered at the end of the course and are included as part of your course registration.

*For those who meet the requirements, NII certification options are available. See page 46 for details.





Coatings in Conjunction with Cathodic Protection (CCCP)

6-Day Classroom Course: Day 1: 10 a.m. to 5:30 p.m. **Days 2-5:** 8 a.m. to 5 p.m. **Day 6:** 8 a.m. to noon

3.8 CEUs

The Coatings in Conjunction with Cathodic Protection (CCCP) course focuses on the control of metallic corrosion by protective coatings and cathodic protection, with coatings as the primary method of control supplemented by cathodic protection. The course will cover the selection, specification, application, testing, and inspection of coatings when used with CP. CCCP provides students with the skills and knowledge to implement and monitor a corrosion control program that utilizes both methods.

Classroom instruction is comprised of lectures and open discussions.

Who Should Attend

Personnel who design, test, inspect, apply, and monitor various structures that are both coated and cathodically protected including:

- Managers
- Engineers
- Field personnel
- Technicians

Prerequisites

Required

There are no prerequisites for this course.

Recommended

- NACE CP Tester Certification or equivalent training
- Comprehensive knowledge of electrochemistry, electricity, electrical laws and series and parallel circuits, meter operation, and CP fundamentals
- Basic Corrosion or Basic Corrosion e-Course

Learning Objectives

- Recall basic corrosion theory and CP fundamentals
- Identify types of structures protected by coatings and CP
- Describe the synergistic relationship of coatings used in conjunction with CP
- Determine the advantages and disadvantages of coating types used with CP
- Perform selection criteria, application, inspection, and testing of various coatings
- Identify the failure modes of the various coatings in relationship to CP
- Recognize failure modes of the various coatings in relationship to CP
- Identify disbonded coatings as related to external corrosion and stress corrosion cracking
- Define CP shielding and non-shielding coatings
- Examine and evaluate in-service coatings used with CP

Certification Exam

A written exam is administered at the end of the course and is included as part of your course registration.

CP Interference

6-Day Classroom Course: Day 1: 1 p.m. to 6:30 p.m. **Days 2-5:** 8 a.m. to 6:30 p.m. **Day 6:** 8 a.m. to 3 p.m.
4.8 CEUs

The Cathodic Protection Interference course focuses on AC, DC, and telluric interference. The course provides in-depth coverage of both concepts and practical application of identifying interference and interference mitigation techniques. Students will learn to identify the causes and effects of interference, conduct tests to determine if an interference condition exists, perform calculations required to predict AC interference.

Classroom instruction is comprised of lecture and discussion, in-class experiments, case studies, and group exercises.

Who Should Attend

Individuals with extensive CP field experience, graduate level mathematics, and a strong technical background in cathodic protection.

Prerequisites

Required

There are no prerequisites for this course.

Recommended

- NACE CP Technologist Certification or equivalent training
- Basic Corrosion or Basic Corrosion e-Course
- 3 years' exposure to CP field or design level work experience
- Thorough understanding of units conversions, scientific notation, advanced algebra, DC circuits with previous exposure to basic AC circuits, complex numbers, interference testing

Learning Objectives

- Describe the effects of stray current, AC voltage, and telluric currents on metallic structures
- Detect stray current, AC interference, and telluric current
- Recognize deleterious effects of AC and DC interference
- Mitigate and monitor AC and DC interference
- Predict AC interference

Exam

A written exam is administered at the end of the course and is included as part of your course registration.



Cathodic Protection Certifications

CP1 – Cathodic Protection Tester

PREREQUISITE

- 6 months' CP-related work experience

COURSE REQUIREMENT

- Successful completion of NACE Cathodic Protection 1 – Tester Course

CORE EXAM REQUIREMENT 1

- CP Tester Practical Exam

Note: This exam is delivered as part of the NACE Cathodic Protection 1 – Tester Course

CORE EXAM REQUIREMENT 2

- CP Tester Exam NACE-CP1-001

Note: This exam is available via computer-based testing at Pearson VUE.

CP2 – Cathodic Protection Technician

Option 1

PREREQUISITE

- Active CP Tester Certification or equivalent training (highly recommended)

COURSE REQUIREMENT

- Successful completion of NACE Cathodic Protection 2 – Technician Course

CORE EXAM REQUIREMENT 1

- CP Technician Practical Exam

Note: This exam is delivered as part of the NACE Cathodic Protection 2 – Technician Course

CORE EXAM REQUIREMENT 2

- CP Technician Exam NACE-CP2-001

Note: This exam is available via computer-based testing at Pearson VUE.

APPLICATION AND WORK EXPERIENCE REQUIREMENTS

- Approved CP Technician Application
- 3 years' verifiable cathodic protection work experience

Option 2

PREREQUISITE

- Active CP Tester Certification or equivalent training (highly recommended)

RECOMMENDED COURSE

- Successful completion of NACE Cathodic Protection 2 – Technician Course

CORE EXAM REQUIREMENT 1

- CP Technician Practical Exam

Note: This exam is delivered as part of the NACE CP2 – Cathodic Protection Technician Course

CORE EXAM REQUIREMENT 2

- CP Technician Exam NACE-CP2-001

Note: This exam is available via computer-based testing at Pearson VUE.

APPLICATION, EDUCATION, AND WORK EXPERIENCE REQUIREMENTS

- Approved CP Technician Application
- Bachelor's degree in physical sciences or engineering
- 1 year of verifiable cathodic protection work experience

Option 3

PREREQUISITE

- Active CP Tester Certification or equivalent training (highly recommended)

RECOMMENDED COURSE

- Successful completion of NACE Cathodic Protection 2 – Technician Course

CORE EXAM REQUIREMENT 1

- CP Technician Practical Exam

Note: This exam is delivered as part of the NACE CP2 – Cathodic Protection Technician Course

CORE EXAM REQUIREMENT 2

- CP Technician Exam NACE-CP2-001

Note: This exam is available via computer-based testing at Pearson VUE.

APPLICATION, EDUCATION, AND WORK EXPERIENCE REQUIREMENTS

- Approved CP Technician Application
- 2 years' post-high school training from approved math or science technical/trade school
- 2 years' verifiable cathodic protection work experience

* All certifications are administered by the NACE International Institute, the independent certification affiliate of NACE International. Certifications are subject to periodic reviews and revisions, please refer to naceinstitute.org for the most current certification information.

Cathodic Protection Certifications

CP Technician – Maritime

Option 1

PREREQUISITE

- Active CP Tester Certification or equivalent training (highly recommended)

RECOMMENDED COURSE

- NACE Cathodic Protection Technician (CP2) Maritime

CORE EXAM REQUIREMENT 1

- CP Technician – Maritime Practical Exam

Note: This exam is delivered as part of the NACE Cathodic Protection Technician (CP2) Maritime

CORE EXAM REQUIREMENT 2

- CP Technician – Maritime Written Exam

Note: This exam is delivered as part of the NACE Cathodic Protection Technician (CP2) Maritime

APPLICATION AND WORK EXPERIENCE REQUIREMENTS

- Approved CP Technician – Maritime Application
- Algebra and logarithm training
- 3 years' verifiable cathodic protection work experience, including 1 year in maritime industry

Option 2

PREREQUISITE

- Active CP Tester Certification or equivalent training (highly recommended)

RECOMMENDED COURSE

- NACE Cathodic Protection Technician (CP2) Maritime

CORE EXAM REQUIREMENT 1

- CP Technician – Maritime Practical Exam

Note: This exam is delivered as part of the NACE Cathodic Protection Technician (CP2) Maritime

CORE EXAM REQUIREMENT 2

- CP Technician – Maritime Written Exam

Note: This exam is delivered as part of the NACE Cathodic Protection Technician (CP2) Maritime

APPLICATION, EDUCATION, AND WORK EXPERIENCE REQUIREMENTS

- Approved CP Technician – Maritime Application
- 2 years' post-high school training from approved math or science technical/trade school
- 2 years' verifiable cathodic protection work experience, including 1 year in maritime industry

Option 3

PREREQUISITE

- Active CP Tester Certification or equivalent training (highly recommended)

RECOMMENDED COURSE

- NACE Cathodic Protection Technician (CP2) Maritime

CORE EXAM REQUIREMENT 1

- CP Technician – Maritime Practical Exam

Note: This exam is delivered as part of the NACE Cathodic Protection Technician (CP2) Maritime

CORE EXAM REQUIREMENT 2

- CP Technician – Maritime Written Exam

Note: This exam is delivered as part of the NACE Cathodic Protection Technician (CP2) Maritime

APPLICATION, EDUCATION, AND WORK EXPERIENCE REQUIREMENTS

- Approved CP Technician – Maritime Application
- Bachelor's degree in physical science or engineering
- 1 year of verifiable cathodic protection work experience in maritime industry

* All certifications are administered by the NACE International Institute, the independent certification affiliate of NACE International. Certifications are subject to periodic reviews and revisions, please refer to naceinstitute.org for the most current certification information.

Cathodic Protection Certifications

CP Technologist

Option 1

PREREQUISITE

- Active CP Technician Certification or equivalent training (highly recommended)

RECOMMENDED COURSE

- NACE Cathodic Protection 3 – Technologist Course

CORE EXAM REQUIREMENT 1

- Certification Exam – CP Technologist Essay Exam

Note: This exam is available at the end of the NACE Cathodic Protection 3 – Technologist Course

CORE EXAM REQUIREMENT 2

- Certification Exam – CP Technologist Exam NACE-CP3-001

Note: This exam is available via computer-based testing at Pearson VUE.

APPLICATION, EDUCATION, AND WORK EXPERIENCE REQUIREMENTS

- Approved CP Technologist Application
- Algebra and logarithm training
- 8 years' verifiable cathodic protection work experience

Option 2

PREREQUISITE

- Active CP Technician Certification or equivalent training (highly recommended)

RECOMMENDED COURSE

- NACE Cathodic Protection 3 – Technologist Course

CORE EXAM REQUIREMENT 1

- CP Technologist Essay Exam

Note: This exam is available at the end of the NACE Cathodic Protection 3 – Technologist Course

CORE EXAM REQUIREMENT 2

- CP Technologist Exam NACE-CP3-001

Note: This exam is available via computer-based testing at Pearson VUE.

APPLICATION, EDUCATION, AND WORK EXPERIENCE REQUIREMENTS

- Approved CP Technologist Application
- 2 years' post-high school training from approved math or science technical/trade school
- 6 years' verifiable cathodic protection work experience

Option 3

PREREQUISITE

- Active CP Technician Certification or equivalent training (highly recommended)

RECOMMENDED COURSE

- NACE Cathodic Protection 3 – Technologist Course

CORE EXAM REQUIREMENT 1

- Certification Exam – CP Technologist Essay Exam

Note: This exam is available at the end of the NACE Cathodic Protection 3 – Technologist Course

CORE EXAM REQUIREMENT 2

- Certification Exam – CP Technologist Exam NACE-CP3-001

Note: This exam is available via computer-based testing at Pearson VUE.

APPLICATION, EDUCATION, AND WORK EXPERIENCE REQUIREMENTS

- Approved CP Technologist Application
- Bachelor's degree in physical sciences or engineering
- 3 years' verifiable cathodic protection work experience

* All certifications are administered by the NACE International Institute, the independent certification affiliate of NACE International. Certifications are subject to periodic reviews and revisions, please refer to naceinstitute.org for the most current certification information.

Cathodic Protection Certifications

CP Specialist

Option 1

PREREQUISITE

- Active CP Technologist Certification or equivalent training

RECOMMENDED COURSE

- NACE Cathodic Protection 4 – Specialist Course

CORE EXAM REQUIREMENT 1

- CP Specialist Essay Exam

Note: This exam is available at the end of the NACE Cathodic Protection 4 – Specialist Course

CORE EXAM REQUIREMENT 2

- CP Specialist Exam NACE-CP4-001

Note: This exam is available via computer-based testing at Pearson VUE.

APPLICATION, EDUCATION, AND WORK EXPERIENCE REQUIREMENTS

- Approved CP Specialist Application
- 2 years' post-high school training from approved math or science technical/trade school
- 12 years' verifiable advanced cathodic protection work experience, including 4 years in responsible charge

Option 2

PREREQUISITE

- Active CP Technologist Certification or equivalent training

RECOMMENDED COURSE

- NACE Cathodic Protection 4 – Specialist Course

CORE EXAM REQUIREMENT 1

- CP Specialist Essay Exam

Note: This exam is available at the end of the NACE Cathodic Protection 4 – Specialist Course

CORE EXAM REQUIREMENT 2

- CP Specialist Exam NACE-CP4-001

Note: This exam is available via computer-based testing at Pearson VUE.

APPLICATION, EDUCATION, AND WORK EXPERIENCE REQUIREMENTS

- Approved CP Specialist Application
- Bachelor's degree in physical sciences or engineering
- 6 years' verifiable advanced cathodic protection work experience, including 4 years in responsible charge

Option 3

PREREQUISITE

- Active CP Technologist Certification or equivalent training

RECOMMENDED COURSE

- NACE Cathodic Protection 4 – Specialist Course

CORE EXAM REQUIREMENT 1

- CP Specialist Essay Exam

Note: This exam is available at the end of the NACE Cathodic Protection 4 – Specialist Course

CORE EXAM REQUIREMENT 2

- CP Specialist Exam NACE-CP4-001

Note: This exam is available via computer-based testing at Pearson VUE.

APPLICATION, EDUCATION, AND WORK EXPERIENCE REQUIREMENTS

- Approved CP Specialist Application
- Choose one of the following:
 - Bachelor's degree in physical science or engineering, plus advanced degree in physical sciences or engineering that required an exam
 - Engineering-In-Training registration
 - Professional Engineer's License
- 4 years' verifiable advanced cathodic protection work experience, including 4 years in responsible charge

* All certifications are administered by the NACE International Institute, the independent certification affiliate of NACE International. Certifications are subject to periodic reviews and revisions, please refer to naceinstitute.org for the most current certification information.