# CP Certification Renewal

# BS EN 15257:2006 Level 1 Cathodic Protection Technician Buried and Immersed Structures

**Recertification will be to BS EN ISO 15257:2017 ISO Level 2 Cathodic Protection Technician**

**On-Land Metallic Structures**

# Guidance and template

**Certification Renewal**

*Applicants must:*

1. Apply for Recertification while their existing Certification is valid, within 6 months of approaching the end of the 5 year Certification period. *The Institute, at its sole discretion, may consider applications for Recertification within 6 months after the end a Certification period but may require applicants to undertake the full examination/assessment process as for new applicants*
2. Provide details of their continued and successful work activity.
3. Provide an up-to-date and accurate record of their Training activities, either external courses or in-house training.
4. Seek to ensure that their training has benefited the quality of their practice.
5. Seek to ensure that their training has benefited the users of their work (employee, customer, student etc.).
6. Demonstrate their continued competence in their sector(s) of activity to their Level of Certification.
7. Undertake to comply with the Code of Ethics for ICorr Certification of Inspection and Cathodic Protection Personnel.

*Learning activities*

Applicants’ training should be a mixture of learning activities relevant to current or future practice and should include activities in the following categories:

1. Work based learning (e.g. by supervisors)
2. Use of new equipment.
3. Self-directed learning (e.g. reading journals, books and articles)

Training comprises all learning activities that you undertake to gain knowledge and experience in order to help you in your professional career as a Certified ISO Level 2 Cathodic Protection Technician.

The following guidance is for the submission of your recertification returns to ICorr. It is up to the individual to decide upon, and submit, an appropriate return within the headings indicated on the form.

|  |  |
| --- | --- |
| **Examples of classes of activity** | **Examples of activity within each class** |
| **Work-based learning:** | Any on the job training required/provided by your employer, this may be field based or classroom based |
| **Formal learning:** | Courses, both in-house and external |
| **Self-directed learning:** | Reading journals, books, articles, standards or reports, etc. |

**Please note:**

1. Your Recertification Return should not merely be a list of activities undertaken it must also include brief statements illustrating your understanding of the theory and practice and your competence at the tasks that you undertake.
2. Although you are required to recertify and submit a return every 5 years. This must demonstrate that you have been in regular practice of your activity as a Cathodic Protection Technician for at least 3 days per week continuously for the 5 years and that you have not had more than 1 year without activity as a Cathodic Protection Technician. If you have had some period not working as a Cathodic Protection Technician you will be required to demonstrate that you have worked more than 3 days per week in this capacity so that your total of working days in a 5 year period (ignoring normal holiday provisions) exceeds 5 years x 48 weeks x 3 days = 720 days in a 5 year period.
3. There is no requirement for the number of hours undertaken in training courses (external or in house training, office based or field based) per year. Indeed, this may vary substantially from year-to-year. Notwithstanding item 3 above, your returns are required to demonstrate a commitment to undertake regular training over a period of time in order to keep your professional understanding and practise up-to-date.
4. The basis for Recertification Returns is self-assessment and we are therefore reliant upon the professionalism of the individual to submit accurate returns. However, you are required to provide confirmation from your supervisor of the accuracy of your return.
5. ICorr will audit a random selection of Recertification Returns to ensure their accuracy. This may include contacting the individual or nominated verifier to confirm the nature of the reported activity. Feedback will be provided to all those whose returns are audited. Please provide a name and contact email address of a person who is able to verify the major part of your submission.
6. If your recertification application is at 10 years (or 20, 30 etc. years) after your original Certification (training, examination and assessment) you will be required to attend an Institute of Corrosion Examination Centre to undertake a practical examination which is intended to assess your key practical competences.

Please return this form to:

Chairman PAC CP Sub-committee

Institute of Corrosion, Corrosion House

5 St Peters Gardens, Marefair

Northampton NN1 1SX, United Kingdom

**Tel:** + 44 (0)1604 438222 **E-mail:** admin@icorr.org

## Level 1 Cathodic Protection Technician Recertification Buried and Immersed Structures (BS EN 15257:2006)

## To be converted to

## ISO Level 2 Cathodic Protection Technician Recertification On-Land Metallic Structures (BS EN ISO 15257:2017)

|  |  |  |  |
| --- | --- | --- | --- |
| **Name:** | |  | |
| **Organisation and field of business:** | |  | |
| **Organisation address:** | |  | |
| **Telephone:** |  | **E-mail:** |  |
| **Job title and/or core responsibility:** | |  | |
| **Period of Activities** (Over 5 years, indicate any breaks in excess of 2-3 weeks for holidays) | |  | |
| **Days per week active as CP Technician** | |  | |
| **Certification No:** |  | **Date of Issue:** |  |

**Please complete the “Insert R or C” column with “R” for tasks you are deemed competent to carry out and have regularly have regularly carried out during the last 5 years or “C” for those tasks you are deemed competent to carry out although you present duties may not require them to be used regularly.**

**NOTE: To Applicant and Verifier:**

**It is not expected that the Applicant will have been taught or will have been examined on the theory and practice of ALL of the Tasks listed below, as part of the Institute of Corrosion training courses or examination that the Applicant originally undertook prior to Certification.**

**However, it IS expected that during his or her time of experience, before and after Certification, ALL of the tasks below have been taught to the Applicant, in the field or in the classroom, by his colleagues, his employer and his ISO Level 3 or Level 4 Cathodic Protection supervisors. We rely on the Applicant and the Verifier to be honest and rigorous in the assessment below as to whether the Applicant is competent in his/her understanding and execution of the specific tasks below (C) and whether the Applicant undertakes them regularly (at least once per month) (R). The Institute of Corrosion reserves the right to call Applicants for interview or examination in order to prove the validity of a proportion of applications for Recertification.**

**Please enter N for any task that the Applicant does not understand and/or is not competent to undertake. It IS permitted for the Applicant to be specifically trained in these tasks by ISO Level 3 or Level 4 supervisors, in the field or classroom, or by self-study and field application supervised by others, before completing this Recertification Application. Any Applicant indicating lack of understanding or competence in any task may be called for additional training and examination by the Institute of Corrosion.**

**Please sign that you understand the above requirements:**

**Applicant …….…………………………. Verifier ………………………………..**

**Print Names ………………………………… …..……………………………**

Table 2: Specific tasks to be fulfilled by ISO Level 2 Cathodic Protection Technician in all application sectors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task  No** | **Description of task** | | | **Insert**  **R, C or N** |
| 3 | Collect general information for design purposes based on technical instructions for simple CP systems (as in Annex A Definitions) | | |  |
| 5 | Check calibration validity of CP measuring and testing equipment based on documentation | | |  |
| 6 | Measure structure to electrolyte potential | | |  |
| 7 | Perform verification test of working portable reference electrode against master electrode of the same type based on measurement | | |  |
| 8 | Perform verification test of working portable reference electrode against another type of reference electrode | | |  |
| 9 | Perform verification test of stationary reference electrode against a portable reference electrode | | |  |
| 10 | Perform pre-commission testing | | |  |
| 11 | Check whether the positive output of the rectifier is connected to the anode and the negative output is connected to the structure | | |  |
| 12 | Identify a wrong polarity of the CP system by structure to electrolyte potential measurement | | |  |
| 14 | Record and report results of the measurements in a comprehensible format | | |  |
| 15 | Classify the results of the measurements | | |  |
| 19 | Measure current and voltage in the CP circuit | | |  |
| 20 | Carry out basic maintenance work on CP systems | | |  |
| 21 | Inspect and measure of DC power supply output current and voltage | | |  |
| 22 | Inspect and verify DC power supply overall operations | | |  |
| 23 | Inspect and maintain DC power supply output terminations if accessible without exposing persons to live AC equipment | | |  |
| 24 | Inspect and maintain DC power supply components | | |  |
| 25 | Verify DC power supply voltage and current outputs with portable calibrated meter | | |  |
| 26 | Routine and expected adjustment of current output to maintain pre-determined performance | | |  |
| 29 | Ensure compliance with safety requirements related to application of CP in the application sector, task and competence level | | |  |
| 30 | Perform risk assessment of safety requirements related to application of CP in the application sector, task and competence level | | |  |
| 33 | Set up measuring and testing equipment and verify equipment settings | | |  |
| 34 | Investigate any case of material cracking when application of CP may be involved | | |  |
| Confirmation | | Print Name | Signature | Date |
| Verifier | |  |  |  |

**Work on the AC mains, side of transformer rectifiers is specifically excluded from the competence requirements of all levels of personnel. Regulations, training and specific certifications apply for work on mains voltage equipment.**

**Table 3  Specific tasks to be fulfilled by ISO Level 2 Cathodic Protection Technician for**

**on-land metallic structures application sector**

| **Task  number** | **Description of task** | | | **Insert**  **R, C or N** |
| --- | --- | --- | --- | --- |
| 1 | Measure metal to electrolyte natural (free corrosion) potential | | |  |
| 2 | Measure resistivity: four-pin Wenner | | |  |
| 3 | Measure resistivity: soil box methods | | |  |
| 8 | Supervise the preparation of metallic surface for making cable connections and for repairing coating | | |  |
| 9 | Supervise the installation of cable connections: bolting, compression and conductive adhesive | | |  |
| 10 | Supervise the installation of cable connections: soldered, exothermic welded, pin brazed | | |  |
| 11 | Supervise the installation of galvanic anodes | | |  |
| 12 | Supervise the installation of DC power supply **(electrical AC supply excluded)** | | |  |
| 13 | Supervise the installation of deep anode impressed current groundbeds | | |  |
| 14 | Supervise the installation of shallow impressed current anode groundbeds | | |  |
| 15 | Supervise the installation of isolation devices | | |  |
| 16 | Supervise the installation of reference electrodes (including calibration) and coupons | | |  |
| 17 | Supervise the installation of AC mitigation earthing electrodes and DC decoupling devices | | |  |
| 18 | Verify the electrical continuity of all parts of the structure to be protected | | |  |
| 19 | Locate protected structure and of foreign metallic structures including buried steel-reinforced concrete and electrical earthing systems | | |  |
| 20 | Inspect and test electrical isolation | | |  |
| 21 | Measure structure to electrolyte ON potential | | |  |
| 22 | Measure structure to electrolyte instant OFF potential | | |  |
| 23 | Measure structure to electrolyte potential depolarization | | |  |
| 24 | Report measurements including comparison of measurement results to a selected CP criteria according to procedure | | |  |
| 25 | Perform close interval potential survey (ON or natural) | | |  |
| 26 | Perform potential measurement of structure to remote earth | | |  |
| 27 | Perform close interval polarized potential survey (ON/instant OFF) | | |  |
| 28 | Establish synchronization of current interruptions for instant OFF measurements | | |  |
| 29 | Confirm synchronization of current interruptions for instant OFF measurements | | |  |
| 30 | Measure ON and IR free potential as well as DC and AC current on coupons | | |  |
| 31 | Measure potential gradients in soil | | |  |
| 37 | Perform interference testing and measurement under interference conditions from a static (not time variant) DC source | | |  |
| 38 | Perform interference testing and measurement under interference conditions from a dynamic (time variant) DC source | | |  |
| 43 | Supervise cable and connection repair | | |  |
| 44 | Test casings for isolation from carrier pipe | | |  |
| 45 | Perform visual inspection of simple components of CP systems (e.g. test posts) | | |  |
| 46 | Perform visual inspection of coating for physical damage | | |  |
| 49 | Collect soil samples and deposits from the structure for laboratory corrosion analysis | | |  |
| 54 | Perform potential surveys of buried pipelines across bodies of water (lakes, rivers, estuaries) | | |  |
| Confirmation | | Print Name | Signature |  |
| Verifier | |  |  |  |

**Additional Training (In house/On the Job/External)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Date** | **Training Course** | **Brief description** | **Benefits: skills learnt, learning outcomes, etc.** | **Hours spent** | **Verified** |
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Add more on separate sheet if necessary

Signature of Applicant: Date:

Signature of Verifier: Email:

Name of Verifier: Contact Address

Date: Telephone:

**Attestation**

In signing and completing this form I confirm that the information given above is truthful and accurate. I acknowledge that my Certification can be withdrawn by the Institute of Corrosion if any element of the above information is shown to be false and that such withdrawal can be published by the Institute.

I also accept that the Institute of Corrosion will maintain records of my Certification and may disclose them at any time to any enquirer seeking personnel Certificated in Cathodic Protection. The Institute of Corrosion is authorised to make contact with me by the details that I have provided above.

I am also accepting and agreeing to work within the Code of Ethics for the Institute of Corrosion Scheme for Certification of Inspection and Cathodic Protection Personnel as detailed below:

**Code of Ethics for ICorr Certification of Inspection and Cathodic Protection Personnel**

This code must be upheld by all personnel Certificated to levels 1 - 5 under the Institute of Corrosion’s *ICorr Certification Scheme* for Inspection and Cathodic Protection personnel engaged in painting and coating inspection, cathodic protection, and in inspection of pipe coating, insulation, fire proofing and metallic coatings.

This Code was approved by the Council of the Institute of Corrosion in December 2013.

Before ICorr Certification or Recertification can be issued, participants in the scheme shall sign this Code of Ethics and undertake to comply with the following:

1. I undertake to uphold the dignity and good standing of my profession and the Institute of Corrosion and its Certification Scheme; I will observe the highest standards of ethical behaviour and obey local laws.
2. I will exercise due skill, care and diligence in all of my professional activities.
3. I acknowledge that my activities may impact on the health and safety of individuals, of the public at large, on the safety of plant and facilities on which I work and on the environment; I will be rigorous in the execution of my professional activities.
4. I shall not use ICorr Certification to mislead any individual, employer or authority by presenting it as testimony that applies to any task outside the scope of the Certification as declared on the ICorr Certificate. I shall not permit my ICorr Certification to be used by any other party nor shall I knowingly permit my Employer or others to misuse the Certification documents issued to me.
5. I shall always endeavour to become fully familiar with my duties and understand the scope of my authority prior to performing work. I shall not accept duties for which I am not trained and proficient; if I am requested to do so I will request – (in writing) – to receive additional training and mentored experience.
6. I recognise that it is my duty to perform tasks as I have been contracted to do and I shall not allow deviations from specified requirements unless given permission – (in writing) – to do so by a higher authority.
7. I will report – (preferably in writing) – to a higher authority if I am aware of any specified requirements which may lead to adverse work or conditions which were not intended.
8. I will endeavour to perform inspections, tests, measurements and any other work for which I have been contracted to the best of my ability and will inform my superior(s) – (in writing) – if I am unable to do so.
9. I will not accept gratuities of any kind which may affect my judgement in the work that I am performing as an ICorr Certificated individual.
10. I will endeavour to be fair, reasonable and objective towards the requirements for which I perform at all times.
11. I will not allow my work to be influenced by personalities or other individual considerations.

I hereby agree to uphold and abide by this code and I acknowledge that I may be subject to a disciplinary procedure which could result in loss of Certification if it can be proven that I have failed to comply or have provided false information associated with my participation in the scheme.

Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Printed Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

NOTE:

ISO Level 2 Certificated Personnel shall not interpret data and shall work only to Method Statements, Work Instructions or Procedures prepared by ISO Level 3 or Level 4 Personnel or other properly authorised Specialists.

ISO Level 3 Certificated Personnel shall not specify or design corrosion protection systems but may participate in design processes supervised and guided by ISO Level 4 Personnel or other properly authorised Specialists. ISO Level 3 Personnel shall prepare Method Statements, Work Instructions or Procedures and shall supervise the work of ISO Level 1 and 2 Personnel in their execution. ISO Level 3 Personnel may interpret data in accordance with established National or International Standards.

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| **Recertification fee:** | | | | | | | | | | | | | | | | | | | | **£55.00** | | |
| I enclose cheque payable to Institute of Corrosion | | | | | | | | | | | | | | | | | | | |  | | |
| Please debit my credit/debit card: (American Express not accepted) | | | | | | | | | | | | | | | | | | | | | | |
| Name on Card | | | | | | | | | | | | | | | | | | | | | | |
| Signed |  | | | | | Expiry date | | | |  | | | | Security 3-digit No | | | | |  | |  |  |
| Card Number | |  |  |  |  | |  |  |  | |  |  |  | |  |  |  |  | | |  |  |