# CP Certification Renewal

# BS EN 15257:2006 Level 1 Cathodic Protection Technician Reinforced Concrete Structures

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

# Guidance and template

**Certification Renewal**

*Applicants must:*

1. Provide details of their continued and successful work activity;
2. Maintain a continuous, up-to-date and accurate record of their Training activities, either external courses or in-house training.
3. Seek to ensure that their training has benefited the quality of their practice;
4. Seek to ensure that their training has benefited the users of their work (employee, customer, student etc.);
5. 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 re-certification 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 by your employer |
| **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 professional practise.
2. Although you are required to recertify and submit a return every 5 years, there is no prescription on quantity (i.e. number of hours) undertaken per year. Indeed, this may vary substantially from year-to-year. Notwithstanding item 2 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.
3. The basis for Recertification Returns is self-assessment and we are therefore reliant upon the professionalism of the individual to submit accurate returns.
4. 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

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 Reinforced Concrete Structures (BS EN 15257:2006)

## To be converted to

## ISO Level 2 Cathodic Protection Technician Recertification Reinforced Concrete 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** (5 years) | |  | |
| **Certification No:** |  | **Date of Issue:** |  |

**Please complete the “Insert R or C” column with “R” for tasks you 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.**

Table 2: Specific tasks to be fulfilled by 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 |
| Referee 1 | |  |  |  |
| Referee 2 | |  |  |  |

**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 for reinforced concrete structures application sector**

| **Task  number** | **Description of task** | | | **Insert**  **R, C or N** |
| --- | --- | --- | --- | --- |
| 1 | Test electrical continuity of reinforcement to allow accurate potential measurements | | |  |
| 2 | Measure steel to concrete natural potential in concrete | | |  |
| 3 | Measure “Half Cell Potential Survey” (close interval survey natural potential) | | |  |
| 5 | Locate reinforcement with cover meter | | |  |
| 6 | Measure cover to reinforcement with cover meter | | |  |
| 7 | Supervise or undertake the collection of concrete drilling dust or core samples for chloride testing | | |  |
| 9 | Test carbonation to broken or cored concrete | | |  |
| 15 | Measure reinforcement electrical continuity (resistance and potential techniques) | | |  |
| 16 | Supervise reinforcement electrical continuity bonding and retest | | |  |
| 17 | Supervise installation of cable connection to reinforcement or embedded/surface mounted metallic items: mechanical | | |  |
| 18 | Supervise installation of cable connection to reinforcement or embedded/surface mounted metallic items: exothermic/welded/pin brazed | | |  |
| 21 | Supervise connections of cables to anodes and (if applicable to anode system) primary anode system installation into secondary anode system | | |  |
| 24 | Measure anode to reinforcement isolation (resistance and potential techniques) | | |  |
| 25 | Measure anode circuit continuity or resistance | | |  |
| 26 | Measure cathode and test circuit continuity or resistance | | |  |
| 29 | Measure ON and instant OFF potential and current at permanently installed reference electrodes and coupons | | |  |
| 30 | Measure ON and instant OFF potential and potential decay from instant OFF at permanently installed reference electrodes | | |  |
| 31 | Survey/measure potential decay from instant OFF over concrete surface using portable reference electrodes | | |  |
| Confirmation | | Print Name | Signature |  |
| Referee 1 | |  |  |  |
| Referee 2 | |  |  |  |

**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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Signature: Date:

Name of Verifier: Email:

Signature of Verifier:

**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 | |  |  |  |  | |  |  |  | |  |  |  | |  |  |  |  | | |  |  |