# Cathodic protection Collector/Tester Level 1

# Certification Application in accordance with BS EN ISO 15257:2017

# On-Land Metallic Structures

***This form is available in e-format from*** [***www.icorr.org***](http://www.icorr.org)***.***

*Please send your completed form, copies of Certificates and supporting documents to:*

*Institute of Corrosion, Professional Assessment Committee, CP Sub Committee Chairman.*

*Note that the Institute of Corrosion needs this information, in addition to details of any courses and examinations that you have undertaken to assess your experience and competence in the field.*

## PART 1 - PERSONAL INFORMATION (If not relevant, insert N/A)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Title |  | Surname |  | Forenames |  | |
| Present Grade of Membership (delete as required) | | | None / Sustaining  TICorr / MICorr / FICorr | Membership Number | |  |
| Date of Birth | |  |
| Telephone Mobile | | | |  | | |
| Business | | | |  | | |
| Home | | | |  | | |
| Email Business | | | |  | | |
| Home | | | |  | | |
| Private Address (Including Postcode) | | | |  | | |
| Business Address (Including Postcode) | | | |  | | |
| Which address for communications? | | | | Business / Home | | |

PART 2 - CRITERIA FOR cathodic protection Data Collector/tester level 1 certification

**Passed ICorr Level 1 On-Land Metallic Structures Cathodic Protection Course:**

**Exam Certificate No(s):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­­­­­­­­­ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­­­­­­­­­­­­­­­­­­­**

|  |  |
| --- | --- |
| **Industrial Experience**  Please give details of at least your last 1 year’s experience immediately prior to this application to demonstrate your current professional practice giving Employer, dates and position. These should include reference to the tasks listed in Experience Report Tables 2 and 3.  List which projects you were involved in and which tests you undertook or supervised:  ***Note: Insufficient information may preclude the certification award.*** | Referees to initial for verification of experience |

**APPLICANT’S UNDERTAKINGS**

I wish to apply for registration as a Certificated Level 1 Cathodic Protection Data Collector/Tester **On-Land Metallic Metallic Structures (**Buried pipeline externals which may cross river/estuaries etc., buried tank externals, external bottoms of above ground storage tanks, well casings etc.)

**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 confirmation that I am 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 level 1 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 Re-certification 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.

|  |  |  |
| --- | --- | --- |
| Name (Print) | Signature of Applicant: | Date |

**Data Protection:** If your application is successful, details will be held on the Institute of Corrosion’s Certification Register database. This publicly available register will include your name, the Institute of Corrosion, and your Level 2 Certification Number. I Corr may wish to use the information you supply in order to be able to communicate with individuals effectively. Level 1 Certified Cathodic Protection Data Collector/Tester have the right of access to their personal data held by I Corr and the right to prevent its use for direct marketing services.

|  |  |
| --- | --- |
| If you wish to receive this information, please tick the box |  |

There is a charge of £55.00 plus VAT for Certification.

Please send your completed form and copies of Examination Pass to:

INSTITUTE OF CORROSION

Corrosion House

5 St Peters Gardens

Marefair

Northampton

NN1 1SX

United Kingdom

**PAYMENT**

Please enclose the required registration and administration fee of **£55 plus VAT** – applications will only be fully processed if registration and administration fees are paid in advance and in full.

**Payment by cheque**

|  |  |
| --- | --- |
| **I enclose a cheque made payable to The Institute of Corrosion** |  |

**Payment by credit/debit card**

|  |  |
| --- | --- |
| **(**American Express not accepted) |  |

**Please telephone the ICorr Office on 01604 438222 to make payment**

EXPERIENCE REPORT

**All Applicants are to fill in Tables 1, 2 and 3 to indicate their experience in the relevant tasks for Level 1 Certification - See ICORR QUALIFICATION PROCEDURE DOCUMENT (CP).**

***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 their time of experience, before and after taking the Course/Examination, 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 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 their 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 Applicant s for interview or examination in order to prove the validity of a proportion of applications for Certification.

Please enter N for any task that the Applicant does not undertake and/or is not competent to undertake. It IS permitted for the Applicant to be specifically trained in these tasks by Level 3 or Level 43 supervisors, in the field or classroom, or by self-study and field application supervised by others, before completing this Certification 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 ……………………………………. Referees 1………………………………..

Print Names ………………………………… Referees 2………………………………..

Please complete the “Insert R, C or N” column:

R = Tasks you are deemed competent to carry out and have regularly carried out in your normal job activities.

C = Those tasks you are deemed competent to carry out although you present duties may not require them to be used regularly

N = Tasks with which you are not familiar and are not deemed competent.

TASKS TO BE FULFILLED IN ALL APPLICATION SECTORS

Table 1 details tasks which shall be fulfilled for Level 1, whatever the application sector. The field of application of each of these tasks covers only the application sector of the certificated individual.

* **Table 1: Basic Awareness required by level 1 Applicants**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Knowledge  number** | **Description of knowledge** | | | **Insert**  **R,C or N** |
| 1 | Electricity relevant to CP application and measurements | | |  |
| 2 | Corrosion, electrochemistry and coatings relevant to CP | | |  |
| 3 | Theory, principles and criteria of CP | | |  |
| 4 | Requirements related to application of CP | | |  |
| 5 | Application methods of CP, galvanic anodes, impressed current | | |  |
| 6 | CP measurements and test procedures | | |  |
| 7 | Relevance of voltage gradient errors and influence on structure to electrolyte potential measurement | | |  |
| 8 | Factors influencing the correct selection of reference electrodes for potential measurements | | |  |
| 9 | Effects of excessive CP on coatings, high-yield strength steels and corrosion-resistant alloys | | |  |
| 10 | Diagnostics of CP systems | | |  |
| 11 | Interference conditions (alternating current and direct current) | | |  |
| 12 | Standards and codes of practice in the relevant application sector | | |  |
| Confirmation | | Print Name | Signature | Date |
| Referee 1 | |  |  |  |
| Referee 2 | |  |  |  |

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# Specific tasks for On-Land Metallic Structures application sector

Level 2 certificated personnel shall have an awareness of:

|  |  |
| --- | --- |
| **BS EN 12954:2001** | Cathodic protection of buried or immersed metallic structures. General principles and application for pipelines |
| **BS EN 13509:2003** | Cathodic protection measurement techniques |
| **BS EN 13636:2004** | Cathodic protection of buried metallic tanks and related piping |
| **BS EN 14505:2005** | Cathodic protection of complex structures |
| **BS EN 15112:2006** | External cathodic protection of well casing |
| **BS EN 15280:2013** | Evaluation of a.c. corrosion likelihood of buried pipelines applicable to cathodically protected pipelines |
| **BS EN 16299:2013** | Cathodic protection of external surfaces of above ground storage tankbases in contact with soil or foundations |
| **BS EN ISO 15589-1: 2015** | Petroleum, petrochemical and natural gas industries - Cathodic protection of pipeline systems. Part 1: On-land pipelines |

Table 2: Specific tasks to be fulfilled by Level 1 Cathodic Protection Technician in all application sectors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task  No** | **Description of task** | | | **Insert**  **R, C or N** |
| 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 | | |  |
| 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 | | |  |
| 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 | | |  |
| 23 | Inspect and maintain DC power supply output terminations if accessible without exposing persons to live AC equipment | | |  |
| 25 | Verify DC power supply voltage and current outputs with portable calibrated meter | | |  |
| 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 | | |  |
| 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 to be fulfilled by Level 1 Cathodic Protection Data Collector/Tester 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 | | |  |
| 21 | Measure structure to electrolyte ON potential | | |  |
| 22 | Measure structure to electrolyte instant OFF | | |  |
| 45 | Perform visual inspection of simple components of CP systems (e.g. test posts) | | |  |
| 46 | Perform visual inspection of coating for physical damage | | |  |
| Confirmation | | Print Name | Signature |  |
| Referee 1 | |  |  |  |
| Referee 2 | |  |  |  |
|  | |  |  |  |

**REFEREES**

Referees should be Professional Members of the Institute of Corrosion who are established Cathodic Protection Personnel, (preferably Certificated minimum Level 43) and who have known the Applicant personally and professionally for a minimum of 6 months. Two Referees are required, one of whom has direct knowledge of the applicant’s employment. If MICorr/FICorr referees cannot be found, a Professional Member of an alternative Engineering Institute who has direct knowledge of the applicant’s employment (e.g. supervisor or line manager) will be acceptable.

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I confirm that I have read the Criteria for Level 1 Certification and confirm that the applicant is competent to carry out the tasks listed above. I recommend that the applicant, to the best of my knowledge and belief, is a fit person to be registered as a Certificated Level 1 Cathodic Protection Technician through the Institute of Corrosion. I agree, on request of the Institute of Corrosion, to provide a confidential written reference.

**Referee 1**

|  |  |  |  |
| --- | --- | --- | --- |
| Name |  | Qualification |  |
| Address |  | Signature |  |
| Date |  |
| Tel No |  | Email |  |

**Referee 2**

|  |  |  |  |
| --- | --- | --- | --- |
| Name |  | Qualification |  |
| Address |  | Signature |  |
| Date |  |
| Tel No |  | Email |  |