This form is available in e-format from www.icorr.org. Tables may be expanded as necessary. It is strongly advised that you review the guidance notes which accompany this form before and during completion. Failure to do so may result in your submission being returned as incomplete.

## PART 1 - PERSONAL INFORMATION AND APPLICATION DETAILS (if not relevant, insert N/A)

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Title |  | Surname | |  | | | Forenames | | |  | |
| Post-nominals | | | |  | | | | | | | |
| ICorr membership No. [if applicable] | | | |  | | | | | | | |
| Telephone Mobile | | | |  | | | | | | | |
| Business | | | |  | | | | | | | |
| Home | | | |  | | | | | | | |
| E-mail Business | | | |  | | | | | | | |
| Home | | | |  | | | | | | | |
| Private Address (Including Postcode) | | | | | | | | | | | |
|  | | | | | | | | | | | |
| Business Address (Including Postcode) | | | | | | | | | | | |
|  | | | | | | | | | | | |
| Which address for communications? | | | | | | | Business / Home (delete as required) | | | | |
| **Please indicate if this application if for: (tick as applicable)** | | | | | | | | | | | |
| Initial Certification | | |  | | ~~5-Year Renewal\*~~ | | |  | 10-Year Renewal | |  |
| **Please indicate Sector/s Certification is to cover (tick as applicable)** | | | | | | | | | | | |
| On-land metallic structures | | | | | |  | Marine metallic structures | | | |  |
| Reinforced concrete structures | | | | | |  | Inner surfaces of metallic structures | | | |  |
| **If applying for Initial Certification, please complete the following information** | | | | | | | | | | | |
| Ref No. of Certification to ISO 15257:2017, Level 3 | | | | | | |  | | | | |
| Dispensation Reference, if Applicable. | | | | | | |  | | | | |
| ISO 15257:2017, Level 4 Examination Pass Ref. | | | | | | |  | | | | |

#### \*Until December 2023 all re-certification will be treated as a 10-year renewal to ensure all persons holding certification to level 4 are compliant with ISO 15257:2017..

Please provide details of your relevant higher/further education or above. This information will be used to determine the length of “additional experience” required when assessing your application. See guidance notes for further details on education and additional experience.

If your education does not include qualifications beyond secondary education, please indicate this by stating “not applicable” in the table below. Vocational education should be included within your CPD report in Part 4 of this document.

All qualifications are to be supported by photocopies of original certificates verified and initialled by at least one your referees.

You do not need to complete this part of the form if applying for recertification.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Institution / Course attended** | **Dates** | | **Subject studied** | **Qualifications obtained** | **Year awarded** | |
|  | |  |  |  | |  |
|  | |  |  |  | |  |
|  | |  |  |  | |  |
|  | |  |  |  | |  |

Publications. Please list any publications that you have written below. Copies of papers, reports in the public domain and patent specifications should be sent where a full library reference is not available.

|  |  |
| --- | --- |
| **Title and Reference** | **Date Published** |
|  |  |
|  |  |
|  |  |
|  |  |

You are asked to provide details of your present and previous employment and positions held in order that assessors can verify that you hold a position likely to reflect the duties required of a Cathodic Protection Specialist.

|  |  |  |  |
| --- | --- | --- | --- |
| **Employer** | **Address** | | |
|  |  | | |
| **Telephone number:** |  | Date joined |  |
| **Job Title** |  | Grade (if applicable) |  |
| Responsibilities: | | | |
|  | | | |
| Please include an organisation chart in the box below, or as a separate attachment.The organisation chart should show the chain of command in your present post and indicate your position in relation to your immediate supervisor, equivalent, and immediate subordinate staff. Your own position should be clearly marked.  You may provide, if you wish, not more than two organisation charts covering previous positions you have held which you consider are relevant to this application. | | | |
|  | | | |

As a Cathodic Protection Specialist, you are expected to have undertaken and been responsible for all the tasks expected of a Level 1, 2 and 3 Technician in accordance with ISO 15257:2017. We therefore ask for brief details of previous positions held to help support this claim.

Please give, in reverse chronological order, relevant dates and the titles of all posts you have held, the names of your employer(s), a description of your personal duties and responsibilities, plus details of any structured training undertaken (including apprenticeships).

If you are presently certificated to ISO 15257:2017 Level 3 you only need to provide details covering your period of industrial experience.

|  |  |  |  |
| --- | --- | --- | --- |
| **Previous Employer/s**  Please specify your duties and responsibilities, e.g. by indicating to whom you were responsible, and the number and type of persons for whose work you were responsible. | | | |
| **From**  *(Month*  *& Year)* | **To**  *(Month*  *& Year)* | **Name and address of employer, position held and nature of work** | Responsibilities |
|  |  |  |  |

Continuing professional development (CPD) comprises learning activities that you undertake to gain knowledge and experience in order to help you in your professional career as a Certified Level 4 Cathodic Protection Specialist. Thus, CPD is ADDITIONAL to the normal duties of your day-to-day employment. For example, training days, professional mentoring of colleagues or others, attendance at conferences, etc. are all clearly CPD activities.

Applicants’ CPD should be a mixture of learning activities relevant to current or future practice and should include activities in at least three (exceptionally two) of the following categories:

1. Work based learning (e.g. supervising staff / students, reflective practice)
2. Professional activity (e.g. involvement in a professional body, attendance at committee meetings, mentoring)
3. Formal Training (e.g. Attendance at formal vocational training, or seminars)
4. Self-directed learning (e.g. reading journals, reviewing books / articles)

The duration covered should be commensurate with the appropriate period of “additional experience” and education if seeking initial certification, or the period since you were last assessed if seeking re-certification.

| **Dates** | **Class of activity** | **Brief description** | **Benefits: skills learnt, learning outcomes, etc.** | **Hours spent** | **How verified:**  **by Certificate, Manager, Self or Referee\*.** |
| --- | --- | --- | --- | --- | --- |
|  | Work-based  Learning |  |  |  |  |
|  | Professional Activity |  |  |  |  |
|  | Formal Training |  |  |  |  |
|  | Self-Directed |  |  |  |  |

\*If Referee Please indicate Ref 1 or Ref 2.

It is essential that you provide full details of your knowledge and experience in each sector you are applying to be certificated. Your competence and experience to become certificated as a Cathodic Protection Specialist will be assessed in three parts:

1. Confirmation from the applicant and their referees that they, are competent to undertake the majority of the core knowledge and application sector specific activities detailed in tables 1 to 6 below.
2. Provision of an *Industrial Experience* report demonstrating a minimum 48 days per year fully dedicated to the *Professional Competencies* detailed above. A reasonable proportion of this time should have been spent on each application sector for which the applicant is seeking certification.
3. Documentary evidence that you are capable of undertaking level 4 activities by way of one or more case studies per sector for which you are seeking certification.

All applicants are required to attend a professional review where they may be questioned on any of the information included within this form or supporting information.

**PART 5.1 - KNOWLEDGE AND COMPETENCE REQUIRMENTS FOR LEVEL 4 PERSONNEL**

It is expected that during their time of experience, before and after initial certification, the Applicant will have gained knowledge and experience in the majority of tasks listed in table 1 through 6 below. We rely on the Applicant and their Referees to be honest and rigorous in the assessment below of whether the Applicant is competent in their understanding and execution of the specific tasks below.

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 your present duties may not require them to be used regularly.

U = Tasks for which you have general understanding of the concepts involved but have limited or no direct experience.

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

Any Applicant indicating lack of understanding or competence in any task may be requested to carry out for additional training and assessment prior to awarding Certification by the Institute of Corrosion.

All applicants are to fill in Table 1 and 2. Only complete sector specific Table(s) 3 to 6 for the Sector/s for which you are applying to indicate your experience in the relevant tasks for Level 4 Certification. Please put a line through/delete/remove tables relating to sectors which you are **NOT** seeking certification.

TASKS TO BE FULFILLED IN ALL APPLICATION SECTORS

Table 1 details knowledge which shall be understood by Applicants for Level 4 whatever the application sector. The field of application of each of these tasks covers only the application sector of the certificated individual.

*Table 1: Detailed Knowledge required by level 4 Applicants*

|  |  |  |
| --- | --- | --- |
| **Knowledge  number** | **Description of knowledge** | **Insert R,C,U 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 |  |

Table 2 details tasks which shall be fulfilled by Applicants for Level 4 whatever the application sector. The field of application of each of these tasks covers only the application sector of the certificated individual.

*Table 2: Tasks to be fulfilled by a level 4 applicants for all application sectors*

| **Task  number** | **Description of task** | **Insert R,C,U or N** |
| --- | --- | --- |
| 1 | Prepare technical reports |  |
| 2 | Prepare technical instructions |  |
| 3 | Collect general information for design purposes based on technical instructions for simple CP systems (as in Annex A Definitions) |  |
| 4 | Collect detailed information and data for design purposes |  |
| 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 |  |
| 13 | Perform start-up and commissioning |  |
| 14 | Record and report results of the measurements in a comprehensible format |  |
| 15 | Classify the results of the measurements |  |
| 16 | Define the limitations of application of the testing method according to established procedures |  |
| 17 | Interpret commissioning or performance verification data and prepare commissioning report, performance verification report or system review report for simple CP systems |  |
| 18 | Interpret commissioning or performance verification data and prepare commissioning report, performance verification report or system review report for non-simple CP systems |  |
| 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 |  |
| 27 | Determine the validity of the data and analyse anomalies detected |  |
| 28 | Determine increase/decrease in current output to maintain optimum performance including remedial actions to correct anomalies and interferences |  |
| 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 |  |
| 31 | Translate CP measuring and testing standards and specifications into technical instructions for CP measuring and testing, routine maintenance, and installations procedures |  |
| 32 | Investigate material weight loss corrosion when application of CP may be involved |  |
| 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 |  |
| 35 | Utilize new developments in science and technology of corrosion and CP along with field performance experience and participate in developing improvements to CP designs, operations, performance assessments and maintenance procedures |  |
| 36 | Write technical instructions for lower-level persons, supervise and train them in the practice of their tasks |  |
| 37 | Interpret and evaluate results in accordance with established standards, codes and specifications |  |
| 38 | Undertake, without supervision, simple CP system (as defined in Annex A) design works according to established procedures in a known environment |  |
| 39 | Establish technical instructions including definition of CP test procedure and equipment to be used and the format for reporting data for tasks covered in standards, codes and specifications |  |
| 40 | Establish technical instructions including definition of CP test procedure and equipment to be used and the format for reporting data for tasks not fully covered in standards, codes and specifications |  |
| 41 | Interpret and evaluate results from all tests performed outside the scope of established standards, codes and specifications |  |
| 42 | Undertake complex CP designs |  |

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.

APPLICATION SECTOR SPECIFIC TASKS – ON-LAND METALLIC STRUCTURES

*Table 3: Specific tasks to be fulfilled by Level 4 Cathodic Protection Specialist for on-land metallic structures*

| **Task  number** | **Description of task** | **Insert R,C,U or N** |
| --- | --- | --- |
| 1 | Measure metal to electrolyte natural (free corrosion) potential |  |
| 2 | Measure resistivity: four-pin Wenner |  |
| 3 | Measure resistivity: soil box methods |  |
| 4 | Measure resistivity: Schlumberger method |  |
| 5 | Calculate vertical resistivity distribution |  |
| 6 | Design simple CP systems. Examples are galvanic anode systems for small tanks in known soil conditions not affected by AC or DC stray current (as in Annex A Definitions) |  |
| 7 | Design non-simple CP systems (simple CP systems are as in Annex A Definitions) |  |
| 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 |  |
| 32 | Intensive measurements (see ISO 15589-1) |  |
| 33 | Perform AC frequency current signal attenuation measurements |  |
| 34 | Perform direct Current Voltage Gradient (DCVG), non-recording |  |
| 35 | Perform direct Current Voltage Gradient (DCVG), with recording of digital measurements |  |
| 36 | Perform Pearson surveys (ACVG) |  |
| 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 |  |
| 39 | Analyse and treat DC interferences from a static (not time variant) source |  |
| 40 | Analyse and treat DC interferences from a dynamic (time variant) source |  |
| 41 | Analyse and treat AC interferences from a static (not time variant) source |  |
| 42 | Analyse and treat AC interferences from a dynamic (time variant)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 |  |
| 47 | Perform detailed inspection of coating and structure for damage |  |
| 48 | Test CP effectiveness under disbonded coating |  |
| 49 | Collect soil samples and deposits from the structure for laboratory corrosion analysis |  |
| 50 | Perform basic chemical and microbiological field test |  |
| 51 | Measure extent of corroded area |  |
| 52 | Assess data and determine cause of corrosion and remedial action |  |
| 53 | Perform E-Log I survey |  |
| 54 | Perform potential surveys of buried pipelines across bodies of water (lakes, rivers, estuaries) |  |
| 55 | Perform current requirement test for pipelines, plants, horizontal directional drilling, etc. |  |

APPLICATION SECTOR SPECIFIC TASKS – MARINE METALLIC STRUCTURES

*Table 4: Specific tasks to be fulfilled by Level 4 Cathodic Protection Specialist for Marine Metallic Structure Application Sector*

| **Task  number** | **Description of task** | **Insert R,C,U or N** |
| --- | --- | --- |
| 1 | Design simple CP systems (as in Annex A Definitions)  Examples are systems for buoys, small boats |  |
| 2 | Design non-simple CP systems (simple CP systems are as in Annex A Definitions) Examples are systems for coastal, offshore and submarine facilities, floating production and storage structures, ships |  |
| 3 | Supervise installation of galvanic or impressed current anodes and monitoring systems |  |
| 4 | Supervise installation of DC power sources **(AC power supply excluded)** |  |
| 5 | Supervise installation of isolation devices |  |
| 6 | Verify the electrical continuity of all parts of the structure to be protected |  |
| 7 | Measure structure to electrolyte potential in seawater from surface with portable reference electrode |  |
| 8 | Measure structure to electrolyte potential in seawater from surface with monitoring systems (permanent reference electrodes and connection by cables or acoustic transmission) |  |
| 9 | Measure structure to electrolyte potential in seawater with portable reference electrode connected to measurement system on surface |  |
| 10 | Measure structure to electrolyte potential in seawater by combined measurement device including reference electrode, voltmeter and contact tip |  |
| 11 | Measure anode current output from surface using monitoring systems (monitored anodes and connection by cables or acoustic transmission) |  |
| 12 | Measure current output of stand-off anodes using underwater clamp meter |  |
| 13 | Measure potential gradient in seawater |  |
| 14 | Organize underwater potential and/or anode current output surveys for simple CP systems (as in Annex A Definitions) Examples are systems for buoys, small boats |  |
| 15 | Organize underwater potential and/or anode current output surveys for non-simple (simple CP systems are as in Annex A Definitions) applications of the application sector |  |
| 16 | Analyse the results of potential and/or anode current output surveys for simple CP systems (as in Annex A Definitions) Examples are systems for buoys, small boats |  |
| 17 | Analyse the results of potential and/or anode current output surveys for non-simple (simple CP systems are (as in Annex A Definitions) applications of the application sector |  |
| 18 | Measure current and voltage in the CP circuit |  |
| 19 | Inspect and measure DC power sources output current and voltage |  |
| 20 | Inspect and verify DC power sources overall operations |  |
| 21 | Inspect and maintain DC power sources output terminations and check polarity |  |
| 22 | Verify DC power sources voltage and current outputs with portable calibrated meter |  |
| 23 | Interpret data |  |
| 24 | Review video record of inspection of structure and CP system with respect to physical damage, coating damage, corrosion damage |  |
| 25 | Supervise measurement of extent of underwater corroded area |  |
| 26 | Measure resistivity of seawater or mud with soil box |  |
| 27 | Measure resistivity of seawater by conductivity meter or salinity or chlorinity |  |
| 28 | Perform interference testing |  |

APPLICATION SECTOR SPECIFIC TASKS – REINFORCED CONCRETE STRUCTURES

*Table 5: Specific tasks to be fulfilled by Level 4 Cathodic Protection Specialist for Reinforced Concrete Structure Application Sector*

| **Task  number** | **Description of task** | **Insert R,C,U 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) |  |
| 4 | Process potential data for mapping |  |
| 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 |  |
| 8 | Interpret chloride analysis results |  |
| 9 | Test carbonation to broken or cored concrete |  |
| 10 | Measure concrete resistivity (two pin or four pin) |  |
| 11 | Inspect surface of reinforcement when exposed for corrosion or physical damage |  |
| 12 | Measure pit depth with suitable gauge |  |
| 13 | Inspect surface of pre-stressing steel when exposed for corrosion or physical damage |  |
| 14 | Design CP system and other electrochemical treatments |  |
| 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 |  |
| 19 | Supervise installation of cable connection to pre-stressing steel |  |
| 20 | Supervise installation of anode systems: galvanic and impressed current |  |
| 21 | Supervise connections of cables to anodes and (if applicable to anode system) primary anode system installation into secondary anode system |  |
| 22 | Supervise installation of reference electrodes, sensors and coupons |  |
| 23 | Supervise installation of DC power supplies and monitoring system **(electrical input AC excluded due to regulations/safety)** |  |
| 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 |  |
| 27 | Correct or remove anode to reinforcement short circuit |  |
| 28 | Set up synchronized current interruptions for instant OFF potential measurements |  |
| 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 |  |
| 32 | Perform interference testing |  |

APPLICATION SECTOR SPECIFIC TASKS – INNER SURFACES OF METALLIC STRUCTURES

*Table 6: Specific tasks to be fulfilled by Level 4 Cathodic Protection Specialistfor Inner Surfaces of Metallic Structures*

| **Task  number** | **Description of task** | **Insert R,C,U or N** |
| --- | --- | --- |
| 1 | Measure resistivity of electrolyte: soil box |  |
| 2 | Measure resistivity of electrolyte: conductivity meter |  |
| 3 | Design simple CP system, e.g. a small, plane surface, open tank containing sea water with regular but slow water replenishment (as in Annex A Definitions) |  |
| 4 | Design a non-simple CP system (simple systems are as in Annex A Definitions)) |  |
| 5 | Design CP taking into account impact on CP performance and safety implications of anodic and cathodic reactions, producing gasses (notably hydrogen and chlorine) and changing pH |  |
| 6 | Supervise installation of galvanic anodes |  |
| 7 | Supervise installation of impressed current anodes and reference electrodes |  |
| 8 | Supervise installation of DC power supply (electrical AC supply excluded) |  |
| 9 | Supervise installation of isolation devices |  |
| 10 | Verify the electrical continuity of all parts of the structure to be protected |  |
| 11 | Supervise and verify cable connections |  |
| 12 | Inspect and measure isolation devices |  |
| 13 | Measure metal to electrolyte natural potential |  |
| 14 | Measure metal to electrolyte ON potential |  |
| 15 | Measure metal to electrolyte instant OFF potential |  |
| 16 | Set up and confirm synchronized current interruptions for instant OFF measurements |  |
| 17 | Measure ON potential and current as well as IR free potential on coupons |  |
| 18 | Test interference |  |
| 19 | Verify DC power supply voltage and current outputs with portable calibrated meter |  |
| 20 | Perform visual inspection of CP system components (e.g. galvanic anodes) with respect to damage |  |
| 21 | Perform visual inspection of vessel and coating with respect to physical and corrosion damage |  |
| 22 | Comply with the hygienic requirements on products and materials in case of contact with drinking water |  |

PART 5.2 - INDUSTRIAL EXPERIENCE

As a Cathodic Protection Specialist, it is required that you spend no less than 20% [approximately 48 days per year] of your professional activities on Cathodic Protection duties at Level 4 or higher.

If applying for initial certification complete the table below for the period of additional experience commensurate of your education or for re-certification the 5-years since you were last assessed.

The total time listed should amount to 48-days per year per Sector. Where applicants are applying for certification in more than one sector it is acknowledged that time spent in each sector may vary from year to year. In such cases applicants shall detail the full time spent dedicated to the *Professional Competencies* in the period of *industrial experience* provided. Where, for some years applicants do not have 48-days per year in a particular sector it would be expected they have correspondingly greater experience in another sector.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Dates** | **Application sector** | **Works undertaken** | **Duration**  **[Days]** | **How verified: Manager, Self or Referee** |
| 10-2-17 to 10-5-2017 | On-Land |  |  |  |
|  | Marine |  |  |  |
|  | Concrete |  |  |  |
|  | Inner Surfaces |  |  |  |

\*If Referee Please indicate Ref 1 or Ref 2

PART 5.3 - EVIDENCE OF COMPETENCE AND EXPERIENCE

You are required to send, along with your completed application, a minimum of one case-study per sector for which you are seeking certification.

The purpose of the case study is to demonstrate that you are actively undertaking and are responsible for the duties of a Cathodic Protection Specialist. As such the simplest way of achieving this is provide case studies comprising completed work for which the Applicant was responsible.

At least one case study should be a design comprising specification, calculations and drawings.

Other acceptable forms of evidence are:

* Detailed survey reports providing interpretation and recommendation.
* Design and installation audit reports.
* Purpose prepared case studies comprising the details found in the documentation detailed above.

If documentation has been prepared in a language other than English a certified translation is required.

All documentation should be provided in electronic format where possible.

All case studies and information provided in your application will be treated in strictest confidence and will only be reviewed by members of ICorr Professional Assessment Committee, Cathodic Protection Sub-Committee and processed by ICorr office staff for administration purposes.

**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 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.

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 |

**OPTIONAL**

As Level 4 Certificated Cathodic Protection Specialist you may be eligible to apply for the Professional Membership Grade in the Institute of Corrosion: MICorr. If you wish to apply for Professional Membership and thus become a full member of ICorr and gain all the associated benefits the necessary application forms can be found on the website, alternatively please contact the office

**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 4 Certification Number. ICorr may wish to use the information you supply in order to be able to communicate with individuals effectively. Level 4 Certified Cathodic Protection Specialist have the right of access to their personal data held by ICorr and the right to prevent its use for direct marketing services.

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

Please send this signed and completed application along with supporting documentation to:

**INSTITUTE OF CORROSION**

**Corrosion House**

**5 St Peters Gardens**

**Marefair**

**Northampton**

**NN1 1SX**

**United Kingdom**

**FAO Professional Assessment Committee, CP Sub-Committee Chair**

Please check before sending that you have completed this form correctly and included the appropriate documents and payment with your application:

|  |  |  |  |
| --- | --- | --- | --- |
| Documentation | Initial Certification | ~~5-Year Recertification\*~~ | 10-Year Recertification |
| Application Form, Completed Signed and Verified By Referees | ✓ | ~~✓~~ | ✓ |
| * Part 1 - Personal Information | ✓ | ~~✓~~ | ✓ |
| * Part 2 – Education and Publications | ✓ | ~~🗶~~ | 🗶 |
| * Part 3 – Employment History | ✓ | ~~✓~~ | ✓ |
| * Part 4 – CPD Report | ✓ | ~~✓~~ | ✓ |
| * Part 5 - Industrial Experience, Knowledge And Competence | ✓ | ~~5.2 Only~~ | ✓ |
| * Attestation, Signed by the Applicant. | ✓ | ~~✓~~ | ✓ |
| * Referees, Signed by both referees. | ✓ | ~~✓~~ | ✓ |
| * Payment Form & Payment | ✓ | ~~✓~~ | ✓ |
| Verified Copies Of Relevant Certification [Part 2]. | ✓ | ~~🗶~~ | 🗶 |
| Case Studies. One Per Sector [Part 5.3]. | ✓ | ~~🗶~~ | ✓ |

*\*Until December 2023 all re-certification will be treated as a 10-year renewal to ensure all persons holding certification to level 4 are compliant with ISO 15257:2017*

REFEREES

Referees should be Professional Members of the Institute of Corrosion who are established Cathodic Protection Engineers, (preferably Certificated to Level 4) who have known the Applicant personally and professionally for a minimum of three years. Two Referees are required, one of whom has direct knowledge of the applicants employment. If the MICorr 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.

I confirm that I have read the Criteria for Level 4 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 4 Cathodic Protection Specialist 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 |  | | |
| Tel No |  | | |
| Email |  | | |
| Signature |  | Date |  |

Please also initial at the bottom of each page where indicated to confirm that the information is to the best your knowledge true and correct.

**Referee 2**

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

Please also initial at the bottom of each page where indicated to confirm that the information is to the best your knowledge true and correct.

If a referee is unable to verify significant portions of the content on a given page we ask that they strike-through their verification box and initial only the content they can verify.

**PAYMENT**

Please enclose the required registration and administration fee of **£230 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**

For office tracking and recording

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name** | | |  | | | | | |
| **Individual Application Number** | | **CP** |  | | | | **Date of Award** |  |
| **Individual Certificate Number** | | **CP** |  | | | | **Date for Renewal** |  |
|  | Checked by | | | Date |  | Checked By | | Date |
| Received |  | | |  | Assessors |  | |  |
| Fee paid |  | | |  | Committee Chairman |  | |  |
| Acknowledged |  | | |  | Certificate |  | |  |
| Referees |  | | |  | CP register |  | |  |