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## ICORR MENTORING PROGRAMME ‘ROUTE TO CHARTERSHIP’

**Objective** of the Institute of Corrosion mentoring program is to support early career engineers reach the required competency levels in the field of corrosion engineering to obtain chartered engineer status.

**Benefits:**

* Mentor guidance
* Assessment from a chartered engineer

The duration of the mentoring relationship is typically two to three years depending on the time required to achieve chartered engineer status. If both mentee and mentor agree, the mentoring relationship can continue beyond that.

It is essential that mentor and mentee can relate well to each other: ICorr will match mentor and mentee based on the information provided in the registration form, but both mentor and mentee have an option of asking for an alternative match.

The role of the mentor is to guide and advise the mentee and he/she should not take responsibility for competence development activities.

Mentor’s responsibilities:

* Provide guidance and advice to mentee
* Assess mentee’s competencies in a fair and thorough manner
* Help mentee plan how to close gaps in competencies
* Support mentee on their route to chartership

Mentee’s responsibilities:

* Clarify your expectations with your mentor
* Be proactive and diligent in drawing up your competence development plan
* Manage your development plans and deliverables yourself
* Schedule meetings and agree the agenda with your mentor

Confidentiality is essential on both sides.

**How to join:**

Mentees:

* Be a registered (professional?) ICorr member
* Apply on the website [www.icorr.org](http://www.icorr.org) or email X (TBC)
* Familiarise yourself with the competencies required to become a chartered engineer (UK-Spec 3rd Edition)

Mentors:

* Preferably be a chartered engineer
* Be a Fellow or Professional Member of ICorr (or equivalent)
* Have recognised expertise in the field of corrosion engineering, with a minimum of 10 years’ experience in a relevant engineering environment.
* Be familiar with the requirements of UK-Spec
* Apply on the website [www.icorr.org](http://www.icorr.org) or email X (TBC)

**Registration form** (to be published on thewebsite so can be filled online, including competencies for mentors, where they could tick the relevant boxes)

**Mentors:**

Title:

Name:

Date of Birth (dd/mm/yy):

Are you chartered engineer and if so, which ?

Institution:

Engineering Council registration number (if applicable):

ICorr Membership number and grade

Company name:

Current position:

Location:

Your expertise: please assess yourself using the ICorr recommended competencies and provide competency level below:

* Corrosion fundamentals
* Corrosion mitigation
* Corrosion monitoring, inspection and testing
* Corrosion engineering design, management & risk assessment
* Leadership & soft skills

How much time you can commit to the program?

Contact number:

Email address:

**Mentees:**

Title:

Name:

Date of Birth (dd/mm/yy):

ICorr Membership number and grade

Company name:

Current position

Location:

What would you like to get out of the program?

How much time you can commit to the program?

Any preference for the mentor’s expertise? (e.g. corrosion inhibition, CP, coatings etc)

Contact number:

Email address:

ICorr recommended competencies (for mentors):

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Competency** | Aware | Knowledgeable | Skilled | Expert |
| 1 | **Corrosion fundamentals:**  Exhibit sound knowledge and understanding of:   1. The fundamental corrosion aspects of chemical / electrochemical reactions and physical / mechanical interactions (e.g. temperature, pressure, flow, erosion, stress, fatigue loading) and the combination thereof that can occur between engineering materials and working environments. 2. The integration of engineering materials and corrosion knowledge and experience to the pros and cons of selecting a given material for an application. |  |  |  |  |
| 2 | **Corrosion mitigation:**  Ability to select and apply effective corrosion mitigation methods based on:   1. Identifying relevant and credible corrosion mechanisms / threats associated with internal and external environments, as appropriate, for specific engineering materials being considered or already in-service; and the affects thereon of design, fabrication, installation, accessibility and operational requirements and constraints. 2. The application, alone or in combination, of various mitigation methods – in particular, corrosion inhibitors, coatings and linings, cathodic protection, process control, and / or material selection – to safely and economically control corrosion. |  |  |  |  |
| 3 | **Corrosion monitoring, inspection and testing:**  Ability to:   1. Select, apply and interpret results and data from various commonly used field and laboratory corrosion testing, monitoring and inspection techniques, based on an understanding of the pros and cons of the associated technologies for intrusive and non-intrusive application. 2. Assess the engineering significance / implications of the results and data from monitoring, inspection and/or testing on short and long-term safe functional (design and/or remaining) life – c.f. fitness-for-service. |  |  |  |  |
| 4 | **Corrosion engineering design, management & risk assessment:**  Exhibit sound knowledge and application of:   1. Best practice corrosion engineering to front end engineering design and/or in-service operations, including relevant in-house, national and international standards, codes and specifications, and economics. 2. Corrosion management strategies / plans and corrosion risk assessments, through both development and execution, from an integrated understanding of materials properties / performance, corrosion mechanisms, failure analysis, monitoring and inspection methods, and corrosion mitigation / control options. |  |  |  |  |
| 5 | **Leadership and soft skills:**  Evidence of:   1. The provision of technical and commercial leadership. 2. Effective interpersonal skills. 3. A personal commitment to professional standards, recognising obligations to society, the profession and the environment. |  |  |  |  |

1. Competency levels:

Level 1 – Aware – Performs activity with significant supervision and guidance – Performs basic routine tasks; little or no responsibility

Level 2 - Knowledgeable– Performs activity in a range of contexts – Supervision required but mainly in more complex circumstances – Some individual responsibility or autonomy

Level 3 - Skilled – Performs activity in some complex or non routine contexts – Significant responsibility and autonomy – can oversee the work of others

Level 4 - Expert – Performs activity in a wide range of complex or non-routine contexts – Substantial personal autonomy – can develop others in the activity