The Royal Institution of Naval Architects

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**IPD Logbook**

A record of the Initial Professional Development of Members applying for registration with

the Engineering Council

Engineer Technician (EngTech)

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| **introductioN** |

**Engineering Council (UK) Registration**

The standards of professional competence and commitment required for Engineering Council registration are defined within the [UK Specification 4th Edition](https://www.engc.org.uk/ukspec4th). It is important that candidates familiarize themselves with the competency standards with the UK Spec 4th Edition as they will need to demonstrate to RINA they meet the standard required for Engineer Technician (EngTech).

RINA has taken the standards from the UK Spec, and applied a Naval Architecture and Maritime Engineering context to create a series of ‘bite-sized’ competencies. Prospective candidates can document their work experience to demonstrate they are working at the standard required for registration.

These are known as RINA’s **Initial Professional Development (IPD)** objectives.

These Objectives may be achieved byexperience, internal training, or external activities (eg training courses, conferences, Branch meetings, etc). Any relevant previous experience, not necessarily in the marine field, and work experience gained prior to graduation may also help you in part to meet the requirements.

**Engineering Council (UK) Registration**

To apply for Incorporated Status with the Engineering Council you will be required to demonstrate that you are working at the competency standards required. You have three options in how you can achieve this:

1. **Option 1**: Complete your IPD logbook recording to the required standard, and submit these logbooks to RINA for evaluation.
2. **Option 2**: Complete your IPD logbook recording. Using the logbooks as evidence and content, construct a Professional Review Report. You do **not** need to submit your logbooks alongside your report.
3. **Option 3:** If you are employed and are working under a company where RINA has accredited your IPD Graduate Scheme. You will be required to meet the standards of the scheme, but are **not** formally required to complete IPD logbook recording.

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| **Recording your Work Experience** |

The IPD logbook books are for candidates to document their practical work experience, to build up a portfolio of evidence to present to RINA that are working at the required standard for registration.

The logbooks can be used in a variety of ways:

* **For forward planning**: to work out what you will need to achieve within your current employment to meet the registration standards.
* **To retrospective recording**: once you believe work has been achieved that meets the competency standard, you can document it within the logbooks.

The Professional Development Objectives are grouped under the broad headings of **Design**, **Engineering Practice**, and Management Services, but the same activity may achieve more than one Objective.

Applying for Professional Registration demonstrates to RINA that you are operating as an *Independent Practicing Engineer* and have the skill set and experience as set out in the UK-SPEC 4.

To meet the registration requirements, RINA would like you to operate broadly across all of the competencies at all 3 levels below.  The minimum levels of ability required in each activity are broadly defined as:

**Level 1:** Having knowledge or being aware of an activity’s existence and the reason for it.

**Level 2**: Having an understanding of the reason for an activity and being familiar with how it should be carried out, or can carry it out with supervision.

**Level 3**: Having the skill to be able to carry out an activity competently and without further guidance

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| **IPD Logbook** |

**What would RINA expect to see in your IPD logbooks?**

When you apply for professional registration, you have the option to submit your completed IPD logbook for review. If you choose this route, RINA will need to be satisfied that your documentation contains sufficient detail to demonstrate that you meet the UK-SPEC 4 standards for registration.

Therefore, we would expect to see the following principles when you are recording your work experience.

**Each logbook will:**

1. Contains detailed descriptions of work undertaken and how it relates to that competency of practice
2. Contains a reflective element – what was successful, what wasn’t successful, what will be improved in the future
3. How does that practice demonstrate you are an independent practising engineer?
4. Detail when and what company work was undertaken
5. Signed off by a line manager or supervisor (if you are submitting your logbooks for review)

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| **advice and assistance** |

If you require any **advice or assistance** on completing your IPD Logbook, or about any aspect of your Initial Professional Development for registration, you should contact the **RINA Membership Team**

[**Membership@rina.org.uk**](mailto:Membership@rina.org.uk)

The Royal Institution of Naval Architects

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Tel: +44 (0) 20 7235 4622

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| **personal details** |

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| **Title** | **Name** |
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| **Academic Qualifications** |

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| **Date** | **College/University** | **Course** |
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| **Employment** |

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| **Date** | **Company** | **Position** |
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| **Activities (Courses, conferences, Branch meetings, etc )** |

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| **Date** | **Activity** |
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| **Professional Development Objectives Record of Achievement** |

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| **Design – Analytical skills: D1** | | | | | |
| **Logbook Sign-Off Information** | | | | | |
| **Supervisor or Line Manager Name:** | | | | **Supervisor or Line Manager Contact Email:** | |
| **I *(supervisor or line manager)*  can confirm the details within this logbook are accurate as stated Y/N** | | | | | |
| **Objective** | | **Date** | **Activity** | | **Activity Level**  **(1, 2 or 3)** |
| **D1.1** | Be able to select and apply the appropriate engineering theory to solve real problems across a range of naval architecture based subjects. |  |  | |  |

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| **Professional Development Objectives Record of Achievement** |

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| **Design – Design Processes & Methodology: D2** | | | | | |
| **Logbook Sign-Off Information** | | | | | |
| **Supervisor or Line Manager Name:** | | | | **Supervisor or Line Manager Contact Email:** | |
| **I (supervisor or line manager) can confirm the details within this logbook are accurate as stated Y/N** | | | | | |
| **Objective** | | **Date** | **Activity** | | **Activity Level**  **(1, 2 or 3)** |
| **D2.1** | Be aware of the implications and interaction of design on manufacture, performance and the environment, and seek to limit environmental impact. |  |  | |  |

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| **Professional Development Objectives Record of Achievement** |

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| **Design – Communication of Technical Information: D3** | | | | | |
| **Logbook Sign-Off Information** | | | | | |
| **Supervisor or Line Manager Name:** | | | | **Supervisor or Line Manager Contact Email:** | |
| **I (supervisor or line manager) can confirm the details within this logbook are accurate as stated Y/N** | | | | | |
| **Objective** | | **Date** | **Activity** | | **Activity Level**  **(1, 2 or 3)** |
| D3.1 | Be able to communicate and assimilate technical information through a variety of means, including:   * Written specifications * Drawings * Reports * Presentations |  |  | |  |
| D3.2 | Be familiar with the types of drawings used and conventions employed in the marine industry and understand their functions and uses. |  |  | |  |
| D3.3 | Be able to correctly interpret and use drawings. |  |  | |  |

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| **Design – Materials: D4** | | | | | |
| **Logbook Sign-Off Information** | | | | | |
| **Supervisor or Line Manager Name:** | | | | **Supervisor or Line Manager Contact Email:** | |
| **I (supervisor or line manager) can confirm the details within this logbook are accurate as stated Y/N** | | | | | |
| **Objective** | | **Date** | **Activity** | | **Activity Level**  **(1, 2 or 3)** |
| D4.1 | Be familiar with the range of materials available, their use and limitations. |  |  | |  |
| D4.2 | Be aware of factors affecting material selection. |  |  | |  |
| D4.3 | Be aware of the function of material testing and of how material specification and quality compliance is ensured. |  |  | |  |

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| **ENGINEERING PRACTICE - Overview of Production E1** | | | | | |
| **Logbook Sign-Off Information** | | | | | |
| **Supervisor or Line Manager Name:** | | | | **Supervisor or Line Manager Contact Email:** | |
| **I (supervisor or line manager) can confirm the details within this logbook are accurate as stated Y/N** | | | | | |
| **Objective** | | **Date** | **Activity** | | **Activity Level**  **(1, 2 or 3)** |
| E1.1 | Be aware of production methods. |  |  | |  |
| E1.2 | Be aware of the different stages of production, such as fabrication, construction, outfitting and installation |  |  | |  |
| E1.3 | Be aware of current production technologies used in the marine industry. |  |  | |  |
| E1.4 | Be familiar with the practical skills and technologies required in the marine industry. |  |  | |  |
| E1.5 | Be able to apply the correct practical skills where required by your employment. |  |  | |  |

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| **ENGINEERING PRACTICE – Safety & Ethics: E2** | | | | | |
| **Logbook Sign-Off Information** | | | | | |
| **Supervisor or Line Manager Name:** | | | | **Supervisor or Line Manager Contact Email:** | |
| **I (supervisor or line manager) can confirm the details within this logbook are accurate as stated Y/N** | | | | | |
| **Objective** | | **Date** | **Activity** | | **Activity Level**  **(1, 2 or 3)** |
| E2.1 | Be aware of safety hazards in the production environment and measures to protect against them. |  |  | |  |
| E2.2 | Be aware of Health & Safety legislation and its resulting obligations on the employer and on the individual. |  |  | |  |
| E2.3 | Be able to apply appropriate safety procedures. |  |  | |  |
| E2.4 | Understand the ethical issues that may arise in your role and carry out your responsibilities in an ethical manner. |  |  | |  |
| E2.5 | Understand the principles of sustainable development and apply them in your work |  |  | |  |
| E2.6 | Understand and comply with relevant codes of conduct |  |  | |  |

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| **Professional Development Objectives Record of Achievement** |

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| **ENGINEERING PRACTICE – Quality E3** | | | | |
| **Logbook Sign-Off Information** | | | | |
| **Supervisor or Line Manager Name:** | | | | |
| **Supervisor or Line Manager Contact Email:** | | | | |
| **I (supervisor or line manager) can confirm the details within this logbook are accurate as stated Y/N** | | | | |
| **Objective** | | **Date** | **Activity** | **Activity Level**  **(1, 2 or 3)** |
| E3.1 | Be aware of quality control methods employed, standards and qualifications, non-destructive testing, and the quality assurance procedures used. |  |  |  |
| E3.2 | Be able to apply correct quality control and assurance procedures where required by your employment. |  |  |  |

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| **ENGINEERING PRACTICE – Production Management: E4** | | | | | |
| **Logbook Sign-Off Information** | | | | | |
| **Supervisor or Line Manager Name:** | | | | **Supervisor or Line Manager Contact Email:** | |
| **I (supervisor or line manager) can confirm the details within this logbook are accurate as stated Y/N** | | | | | |
| **Objective** | | **Date** | **Activity** | | **Activity Level**  **(1, 2 or 3)** |
| E4.1 | Understand how production is organised and controlled, including, planning, budgeting, expediting, reporting of progress and control of resources – material, manpower and information. |  |  | |  |

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| **Logbook Sign-Off Information** | | | | | |
| **Supervisor or Line Manager Name:** | | | | **Supervisor or Line Manager Contact Email:** | |
| **I (supervisor or line manager) can confirm the details within this logbook are accurate as stated Y/N** | | | | | |
| **Objective** | | **Date** | **Activity** | | **Activity Level**  **(1, 2 or 3)** |
| E5.1 | Be aware of the function of commissioning and trials. |  |  | |  |
| E5.2 | Be aware of the commissioning process – setting to work, trials and handover. |  |  | |  |
| E5.3 | Understand maintenance and repair regimes and their effects on costs and operability. |  |  | |  |
| E5.4 | Be able to carry out maintenance and repair efficiently when required by your employment. |  |  | |  |

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| **ENGINEERING PRACTICE – Procurement: E6** | | | | | **Activity Level**  **(1, 2 or 3)** |
| **Logbook Sign-Off Information** | | | | | |
| **Supervisor or Line Manager Name:** | | | | **Supervisor or Line Manager Contact Email:** | |
| **I (supervisor or line manager) can confirm the details within this logbook are accurate as stated Y/N** | | | | | |
| **Objective** | | **Date** | **Activity** | |  |
| E6.1 | Be aware of the relationships with suppliers, through specifications and contracts, and of how materials/components are stored and handled within a production environment. |  |  | |  |

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| **MANAGEMENT SERVICES – Accounts & Finance: M1** | | | | | |
| **Logbook Sign-Off Information** | | | | | |
| **Supervisor or Line Manager Name:** | | | | **Supervisor or Line Manager Contact Email:** | |
| **I (supervisor or line manager) can confirm the details within this logbook are accurate as stated Y/N** | | | | | |
| **Objective** | | **Date** | **Activity** | | **Activity Level**  **(1, 2 or 3)** |
| M1.1 | Be aware of the role of accounts in the control and administration of the business. |  |  | |  |
| M1.2 | Be aware of company accounting procedures and processes. |  |  | |  |

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| **MANAGEMENT SERVICES – Human Resources: M2** | | | | | |
| **Logbook Sign-Off Information** | | | | | |
| **Supervisor or Line Manager Name:** | | | | **Supervisor or Line Manager Contact Email:** | |
| **I (supervisor or line manager) can confirm the details within this logbook are accurate as stated Y/N** | | | | | |
| **Objective** | | **Date** | **Activity** | | **Activity Level**  **(1, 2 or 3)** |
| M2.1 | Be aware of employment legislation and its effects. |  |  | |  |
| M2.2 | Be able to interact and relate to personnel in an effective and constructive manner |  |  | |  |

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| **MANAGEMENT SERVICES – Quality Assurance: M3** | | | | | |
| **Logbook Sign-Off Information** | | | | | |
| **Supervisor or Line Manager Name:** | | | | **Supervisor or Line Manager Contact Email:** | |
| **I (supervisor or line manager) can confirm the details within this logbook are accurate as stated Y/N** | | | | | |
| **Objective** | | **Date** | **Activity** | | **Activity Level**  **(1, 2 or 3)** |
| M3.1 | Be aware of quality assurance policy and documentation. |  |  | |  |
| M3.2 | Be able to apply correct QA procedures when required. |  |  | |  |

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| **Logbook Sign-Off Information** | | | | | |
| **Supervisor or Line Manager Name:** | | | | **Supervisor or Line Manager Contact Email:** | |
| **I (supervisor or line manager) can confirm the details within this logbook are accurate as stated Y/N** | | | | | |
| **Objective** | | **Date** | **Activity** | | **Activity Level**  **(1, 2 or 3)** |
| M4.1 | Be aware of company structure and the functions of differing departments or sections of the company. |  |  | |  |

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| **MANAGEMENT SERVICES – Marketing & Communication M5** | | | | | |
| **Logbook Sign-Off Information** | | | | | |
| **Supervisor or Line Manager Name:** | | | | **Supervisor or Line Manager Contact Email:** | |
| **I (supervisor or line manager) can confirm the details within this logbook are accurate as stated Y/N** | | | | | |
| **Objective** | | **Date** | **Activity** | | **Activity Level**  **(1, 2 or 3)** |
| M5.1 | Be aware of the factors affecting customer satisfaction. |  |  | |  |

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| **MANAGEMENT SERVICES – Managerial Skills, Contracts & Negotiations M6** | | | | | |
| **Logbook Sign-Off Information** | | | | | |
| **Supervisor or Line Manager Name:** | | | | **Supervisor or Line Manager Contact Email:** | |
| **I (supervisor or line manager) can confirm the details within this logbook are accurate as stated Y/N** | | | | | |
| **Objective** | | **Date** | **Activity** | | **Activity Level**  **(1, 2 or 3)** |
| M6.1 | Be aware of different management techniques and styles, and of their application. |  |  | |  |

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