



# IMarEST Technologists Register Standards Document

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## Introduction

IMarEST is the global, multidisciplinary community for marine professionals, united by a shared commitment to sustainability, collaboration, safety integrity, and professional excellence.

The Institute's role is to promote the scientific development and interdisciplinary understanding of marine engineering, marine science and marine technology and to uphold and advance the knowledge and status of professionals across the international marine community.

The IMarEST received its Royal Charter in 1933 and is a licensed body of both the Engineering Council and the Science Council. In accordance with our Royal Charter, the IMarEST is able to award suitably qualified and experienced applicants the title of Marine Technician (MarTech), Registered Marine Technologist (RMarTech) and Chartered Marine Technologist (CMarTech). These are our own registers and the IMarEST is the only professional body in the world able to award these titles.

All Marine Technologists will continue to advance their knowledge, understanding and competence to a high level and are bound by the IMarEST Code of Conduct including the a commitment to do CPD.

This peer-reviewed process acknowledges and confirms your success, offering the opportunity for you to connect and collaborate with the renowned membership community.

Successful applicants to the IMarEST Technologist Register are entitled to use the designated post-nominals, demonstrating their professional recognition and commitment to excellence.

We welcome applications for IMarEST registrations both from those newly joining us or from those current members wishing to add professional registration to their membership grade.

## How to become professionally registered?

Formal education is one way to demonstrate this underpinning knowledge. However, applicants may also provide evidence of equivalent learning gained through professional experience, training, or other qualifications.

To achieve professional registration as a Technologist with IMarEST, applicants must demonstrate they meet the required standards in two key areas:

- Education
- Competence

As part of the competence assessment, IMarEST also considers the applicant's commitment to ongoing professional development.

Competence is underpinned by a solid foundation of knowledge, understanding, and skills. These elements are essential for applying sound judgement, analytical thinking, and technical reasoning in professional practice. They ensure that decisions are made based on a thorough understanding of marine engineering, science, or technology principles, rather than simply following procedures.

## What is the process?



\* Please note that PRIs are only required for RMarTech and CMarTech

## Recognised Qualifications

### Marine Technician (MarTech)

One of the following:

Successful completion of an apprenticeship or other work-based learning programme approved by IMarEST

Alongside appropriate working experience, holding a qualification, approved by IMarEST, in a holding a qualification approved by IMarEST, in any maritime discipline across the technological, operational, commercial and scientific spectrums set at either:

- Level 3 (or above) in the Regulated Qualifications Framework or National Qualifications Framework for England and Northern Ireland
- Level 6 (or above) in the Scottish Credit and Qualifications Framework level 3 (or above) in the Credit and Qualifications Framework for Wales

Alongside appropriate working experience, holding equivalent qualifications or apprenticeships accredited or approved by IMarEST or at an equivalent level in a relevant national or international qualifications framework.

### Registered Marine Technologist (RMarTech)

One of the following:

- An accredited Bachelor's or honours degree in a marine technology related subject
- An accredited Higher National Certificate (HNC) or Higher National Diploma (HND holding a qualification approved by IMarEST, in any maritime discipline across the technological, operational, commercial and scientific spectrums started before September 1999
- An HNC or HND started after September 1999 (but before September 2010 in the case of the HNC) or a Foundation Degree in a marine technology related subject, plus appropriate further learning to degree level
- A National Vocational Qualification (NVQ) or Scottish Vocational Qualification (SVQ) at level 4 that has been approved by IMarEST, plus appropriate further learning to degree level, and international equivalents.
- Equivalent qualifications or apprenticeships accredited or approved by a Licensee, or at an equivalent level in a relevant national or international qualifications framework.

### Chartered Marine Technologist (CMarTech)

One of the following:

- An accredited Bachelor's degree with honours in engineering or technology, plus either an appropriate Master's degree or Doctorate level qualification accredited by a Licensee, or appropriate further learning to Master's level
- An accredited integrated MEng degree
- An accredited Bachelor's degree with honours in engineering or technology started before September 1999
- Equivalent qualifications or apprenticeships accredited or approved by a Licensee, or at an equivalent level in a relevant national or international qualifications framework.

## Experiential Route

Many prospective registrants for the IMarEST Technologist Register may not have followed a formal academic pathway to the required level. However, they can still demonstrate the necessary underpinning knowledge and competence through substantial professional experience.

Applicants who have gained their knowledge through experiential learning, professional development, or alternative qualifications are encouraged to submit relevant documentation to IMarEST for an initial assessment. This process evaluates the applicant's prior learning and the foundational knowledge required to perform effectively in a technologist role.

To support their application, individuals should provide comprehensive details of their:

- Educational background
- Career history
- Training and development activities

It is also beneficial to include evidence of employer recognition of relevant skills and competencies.

Following the initial review, if IMarEST determines that further evidence is needed to confirm the applicant's knowledge and understanding, guidance will be provided on the nature and scope of the additional information required.

Applicants may demonstrate their knowledge and understanding through various means, including:

- Completion of further qualifications (in full or in part)
- Documented work-based or experiential learning
- Submission of a technical report based on professional experience, illustrating understanding of marine engineering, science, or technology principles
- A combination of the above

## Competencies

The Competence and Commitment Standards for Marine Technologist Registrants. Candidates will need to demonstrate all competencies for their chosen registration level.

<b>Marine Technician (MarTech)</b>	<b>Registered Marine Technologist (RMarTech)</b>	<b>Chartered Marine Technologist (CMarTech)</b>
Marine Technicians must be competent throughout their working life, by virtue of their education, training and experience to:	Registered Marine Technologists must be competent throughout their working life, by virtue of their education, training and experience to:	Chartered Marine Technologists must be competent throughout their working life, by virtue of their education, training and experience, to:
<b>A. Use appropriate knowledge and understanding to apply technical and practical skills. This includes the ability to:</b>	<b>A. Use a combination of general and specialist knowledge and understanding to apply existing and emerging technology.</b>	<b>A. Use a combination of general and specialist knowledge and understanding to optimise the application of existing and emerging technology.</b>
<p>A1. Review and select appropriate techniques, procedures and methods to undertake tasks.</p>	<p>A1. Maintain and extend a sound theoretical approach to the application of technology in practice.</p> <p>This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Identify the limits of own personal knowledge and skills</li> <li>• Strive to extend own technological capability</li> <li>• Broaden and deepen own knowledge base through research and experimentation</li> <li>• Be a reflective practitioner – regularly evaluate your own practice and learning needs to ensure continuous improvement</li> <li>• Link reflection to the CPD process – rather than undertaking random CPD activities, create a structured CPD plan informed by reflection, identifying specific areas for development</li> <li>• Act ethically within scope of expertise – particularly for those offering consultancy services, ensure advice and actions remain within your professional competence.</li> </ul>	<p>A1. Maintain and extend a sound theoretical approach in enabling the introduction and exploitation of new and advancing technology and other relevant developments.</p> <p>This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Identify the limits of own personal knowledge and skills</li> <li>• Strive to extend own technological capability</li> <li>• Broaden and deepen own knowledge base through research and experimentation</li> <li>• Be a reflective practitioner – regularly evaluate your own practice and learning needs to ensure continuous improvement</li> <li>• Link reflection to the CPD process – rather than undertaking random CPD activities, create a structured CPD plan informed by reflection, identifying specific areas for development</li> <li>• Act ethically within scope of expertise – particularly for those offering consultancy services, ensure advice and actions remain within your professional competence.</li> </ul>

**Marine Technician (MarTech)**

A2. Use appropriate principles.

**Registered Marine Technologist (RMarTech)**

A2. Use a sound evidence-based approach to problem-solving and contribute to continuous improvement.

This could include an ability to:

- Establish users' requirements for improvement
- Use market intelligence and knowledge of technological developments to promote and improve the effectiveness of products, systems and services
- Contribute to the evaluation and development of continuous improvement systems
- Apply knowledge and experience to investigate and solve problems arising during tasks and implement corrective action.

**Chartered Marine Technologist (CMarTech)**

A2. Engage in the creative and innovative development of systems, processes and products and continuous improvement systems.

This could include an ability to:

- Establish users' needs
- Assess marketing needs and contribute to marketing strategies Identify constraints and exploit opportunities for the development and transfer of technology within own chosen field
- Promote new applications when appropriate
- Secure the necessary intellectual property rights
- Develop and evaluate continuous improvement systems.

<b>Marine Technician (MarTech)</b>	<b>Registered Marine Technologist (RMarTech)</b>	<b>Chartered Marine Technologist (CMarTech)</b>
<p><b>B. Contribute to the design, development, manufacture, construction, commissioning, operation or maintenance of products, equipment, processes, systems or services. In this context, this includes the ability to:</b></p>	<p><b>B. Apply appropriate theoretical and practical methods to design, develop, manufacture, construct, commission, operate, maintain, decommission and re-cycle processes, systems, services and products.</b></p>	<p><b>B. Apply appropriate theoretical and practical methods to the analysis and solution of problems.</b></p>
<p>B1. Identify problems and apply problem-solving approaches to identify causes and achieve satisfactory solutions.</p>	<p>B1. Identify, review and select techniques, procedures and methods to undertake tasks</p> <p>This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Select an appropriate review methodology based on the context and objectives</li> <li>• Apply structured problem-solving and decision-making approaches to evaluate options and determine the best course of action</li> <li>• Use widely recognized frameworks and tools such as:               <ul style="list-style-type: none"> <li>◦ DMAIC (Define, Measure, Analyse, Improve, Control) – for process improvement</li> <li>◦ PDCA (Plan, Do, Check, Act) – for iterative enhancements</li> <li>◦ Design Thinking – for user-centred innovation</li> <li>◦ SWOT and PESTLE analyses – for strategic and commercial considerations</li> </ul> </li> <li>• Review the potential for enhancing products, processes, systems, and services using evidence from best practice and benchmarking</li> <li>• Establish a clear action plan to implement the results of the review, ensuring alignment with organisational goals and stakeholder needs.</li> </ul>	<p>B1. Identify potential projects and opportunities</p> <p>This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Explore areas within your responsibility to uncover new opportunities for improvement or innovation</li> <li>• Review the potential for enhancing products, processes, systems, and services using evidence from best practice and market trends</li> <li>• Apply structured business analysis and strategic tools to assess opportunities, such as:               <ul style="list-style-type: none"> <li>◦ SWOT analysis – to evaluate strengths, weaknesses, opportunities, and threats</li> <li>◦ PESTLE analysis – to understand external factors influencing viability</li> <li>◦ Design Thinking – for user-centered innovation</li> </ul> </li> <li>• Use knowledge of the organization’s position and strategic objectives to assess feasibility, alignment, and potential value</li> <li>• Prioritise opportunities based on impact, risk, and resource requirements to ensure focus on the most beneficial initiatives.</li> </ul>

## Marine Technician (MarTech)

B2. Identify, organise and use resources effectively to complete tasks, with consideration for cost, quality, safety and sustainability

This could include an ability to:

- Plan and allocate resources responsibly, balancing cost, quality, safety, and sustainability
- Move beyond environmental impact to embrace the “People, Planet, Profit” approach, ensuring decisions support social responsibility, ecological stewardship, and economic viability
- Develop skills in sustainable resource management, including reducing waste, optimising efficiency, and considering lifecycle impacts
- Collect, analyse, and evaluate data to inform resource decisions, incorporating modern techniques such as AI-driven analytics for predictive insights and optimisation
- Translate analytical findings into practical, workable solutions that improve performance and sustainability outcomes
- Monitor and adapt resource strategies to respond to changing conditions, risks, and opportunities.

## Registered Marine Technologist (RMarTech)

B2. Contribute to the design and development of solutions

This could include an ability to:

- Collaborate in identifying and specifying design and development requirements for products, processes, systems, and services
- Identify potential operational problems early and evaluate possible solutions using structured approaches
- Consider a broad range of factors when evaluating solutions, including:
  - Cost, quality, safety, reliability, appearance, and fitness for purpose
  - Sustainability and responsible resource use, moving beyond environmental impact to embrace the “People, Planet, Profit” principle
- Leverage data-driven insights, including modern techniques such as AI-powered analytics, to inform design decisions and predict potential risks
- Translate analytical findings into practical, workable solutions that deliver measurable improvements
- Contribute actively to the design process, ensuring solutions align with organisational goals, stakeholder needs, and ethical standards.

## Chartered Marine Technologist (CMarTech)

B2. Conduct appropriate research and undertake design and development of solutions

This could include an ability to:

- Identify and agree appropriate research methodologies that align with project objectives and ethical standards
- Assemble the necessary resources responsibly, considering cost, quality, safety, and sustainability
- Carry out tests and experiments to validate concepts and approaches
- Collect, analyse, and evaluate relevant data, incorporating modern techniques such as AI-driven analytics for deeper insights and predictive modelling
- Translate analytical findings into practical, workable design recommendations, ensuring they are actionable and measurable
- When drafting and presenting design recommendations, take account of:
  - Cost, quality, safety, reliability, appearance, and fitness for purpose
  - Sustainability and responsible resource use, embracing the “People, Planet, Profit” principle
- Collaborate to agree and implement design solutions that meet stakeholder needs and organisational goals.

Marine Technician (MarTech)	Registered Marine Technologist (RMarTech)	Chartered Marine Technologist (CMarTech)
	<p>B3. Implement design solutions and contribute to their evaluation.</p> <p>This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Secure the resources required for implementation</li> <li>• Implement design solutions, taking account of critical constraints</li> <li>• Identify problems during implementation and take corrective action</li> <li>• Contribute to the evaluation of design solutions</li> <li>• Contribute to recommendations for improvement and actively learn from feedback on results.</li> </ul>	<p>B3. Implement design solutions and evaluate their effectiveness.</p> <p>This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Ensure that the application of the design results in practical outcome</li> <li>• Implement design solutions, taking account of critical constraints</li> <li>• Determine the criteria for evaluating the design solutions</li> <li>• Evaluate the outcome against the original specification</li> <li>• Actively learn from feedback on results to improve future design solutions and build best practice.</li> </ul>
<p><b>C. Accept and exercise personal responsibility. This may include the ability to:</b></p>	<p><b>C. Provide technical and commercial management.</b></p>	<p><b>C. Provide technical and commercial leadership.</b></p>
<p>C1. Work reliably and effectively without close supervision, to the appropriate codes of practice.</p>	<p>C1. Plan for effective project implementation.</p> <p>This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Identify the factors affecting the project implementation</li> <li>• Prepare and agree implementation plans and method statements</li> <li>• Secure the necessary resources</li> <li>• Feed the results back to improve the proposals.</li> </ul>	<p>C1. Plan for effective project implementation.</p> <p>This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Identify the factors affecting the project implementation</li> <li>• Lead on preparing and agreeing implementation plans and method statements</li> <li>• Ensure that the necessary resources are secured and brief the project team</li> <li>• Negotiate the necessary contractual arrangements with other stakeholders (client, subcontractors, suppliers, etc.).</li> </ul>

## Marine Technician (MarTech)

C2. Accept responsibility for work of self and others.

## Registered Marine Technologist (RMarTech)

C2. Manage the planning, budgeting and organisation of tasks, people and resources

This could include an ability to:

- Operate appropriate management systems to plan, monitor, and control activities
- Work to agreed quality standards, programme, and budget, ensuring compliance with legal and statutory requirements
- Manage and motivate work teams, coordinating project activities effectively across diverse and multicultural environments
- Demonstrate intercultural communication skills to foster collaboration, respect, and understanding among team members from different cultural backgrounds
- Identify variations from quality standards, programme, and budgets, and take timely corrective action
- Evaluate performance and recommend improvements, using data-driven insights and inclusive feedback practices
- Apply principles of sustainability and responsible resource use, balancing cost, quality, safety, and the “People, Planet, Profit” approach.

## Chartered Marine Technologist (CMarTech)

C2. Plan, budget, organise, direct and control tasks, people and resources

This could include an ability to:

- Set up and operate appropriate management systems to plan, monitor, and control activities effectively
- Agree quality standards, programme, and budget within legal and statutory requirements
- Organise and lead work teams, coordinating project activities across diverse and multicultural environments
- Demonstrate strong intercultural communication skills to foster collaboration, respect, and understanding among team members from different cultural backgrounds
- Ensure that variations from quality standards, programme, and budgets are identified promptly, and take corrective action to maintain project objectives
- Gather and evaluate feedback inclusively, ensuring diverse perspectives are considered
- Recommend improvements based on performance evaluation, data-driven insights, and stakeholder input
- Embed sustainability principles (People, Planet, Profit) in planning and resource allocation to ensure responsible and ethical project delivery.

Marine Technician (MarTech)	Registered Marine Technologist (RMarTech)	Chartered Marine Technologist (CMarTech)
<p>C3. Accept, allocate and supervise technical and other tasks.</p>	<p>C3 Manage teams and develop staff to meet changing technical and managerial needs.</p> <p>This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Agree objectives and work plans with teams and individuals</li> <li>• Identify team and individual needs, and plan for their development</li> <li>• Manage and support team and individual development</li> <li>• Assess team and individual performance and provide feedback.</li> </ul>	<p>C3. Lead teams and develop staff to meet changing technical and managerial needs.</p> <p>This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Agree objectives and work plans with teams and individuals</li> <li>• Identify team and individual needs, and plan for their development</li> <li>• Lead and support team and individual development</li> <li>• Assess team and individual performance and provide feedback.</li> </ul>
	<p>C4. Manage continuous quality improvement.</p> <p>This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Ensure the application of quality management principles by team members and colleagues</li> <li>• Manage operations to maintain quality standards</li> <li>• Evaluate projects and make recommendations for improvement.</li> </ul>	<p>C4. Bring about continuous improvement through quality management.</p> <p>This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Promote quality throughout the organisation and its customer and supplier networks</li> <li>• Develop and maintain operations to meet quality standards</li> <li>• Direct project evaluation and propose recommendations for improvement.</li> </ul>

Marine Technician (MarTech)	Registered Marine Technologist (RMarTech)	Chartered Marine Technologist (CMarTech)
<p><b>D. Use effective communication and interpersonal skills.</b> This includes the ability to:</p>	<p><b>D. Demonstrate effective interpersonal skills.</b></p>	<p><b>D. Demonstrate effective interpersonal skills.</b></p>
<p>D1. Use oral, written and electronic methods for the communication in English of technical and other information.</p>	<p>D1. Communicate in English with others at all levels. This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Contribute to, chair and record meetings and discussions</li> <li>• Prepare letters, documents and reports on technical matters</li> <li>• Exchange information and provide advice to technical and non-technical colleagues.</li> </ul>	<p>D1. Communicate in English with others at all levels. This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Contribute to, chair and record meetings and discussions</li> <li>• Prepare letters, documents and reports on complex matters</li> <li>• Exchange information and provide advice to technical and non-technical colleagues.</li> </ul>
<p>D2. Work effectively with colleagues, clients, suppliers and the public.</p>	<p>D2. Present and discuss proposals. This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Prepare and deliver appropriate presentations</li> <li>• Manage debates with audiences</li> <li>• Feed the results back to improve the proposals.</li> </ul>	<p>D2. Present and discuss proposals. This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Prepare and deliver presentations on strategic matters</li> <li>• Lead and sustain debates with audiences</li> <li>• Feed the results back to improve the proposals.</li> </ul>
	<p>D3. Demonstrate personal and social skills. This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Know and manage own emotions, strengths and weaknesses</li> <li>• Be aware of the needs and concerns of others</li> <li>• Be confident and flexible in dealing with new and changing interpersonal situations</li> <li>• Identify, agree and work towards collective goals</li> <li>• Create, maintain and enhance productive working relationships, and resolve conflicts.</li> </ul>	<p>D3. Demonstrate personal and social skills. This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Know and manage own emotions, strengths and weaknesses</li> <li>• Be aware of the needs and concerns of others</li> <li>• Be confident and flexible in dealing with new and changing interpersonal situations</li> <li>• Identify, agree and lead work towards collective goals</li> <li>• Create, maintain and enhance productive working relationships, and resolve conflicts.</li> </ul>

Marine Technician (MarTech)	Registered Marine Technologist (RMarTech)	Chartered Marine Technologist (CMarTech)
<p><b>E. Make a personal commitment to an appropriate code of professional conduct, recognising obligations to society, the profession and the environment.</b></p> <p><b>In order to satisfy this commitment, they must:</b></p>	<p><b>E. Demonstrate a personal commitment to professional standards, recognising obligations to society, the profession and the environment.</b></p>	<p><b>E. Demonstrate a personal commitment to professional standards, recognising obligations to society, the profession and the environment.</b></p>
<p>E1. Comply with the IMarEST's Code of Conduct.</p>	<p>E1. Comply with relevant codes of conduct. This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Comply with the IMarEST's rules of professional conduct</li> <li>• Manage work within all relevant legislation and regulatory frameworks, including social and employment legislation.</li> </ul>	<p>E1. Comply with relevant codes of conduct. This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Comply with the IMarEST's rules of professional conduct</li> <li>• Lead work within all relevant legislation and regulatory frameworks, including social and employment legislation.</li> </ul>
<p>E2. Manage and apply safe systems of work.</p>	<p>E2. Manage and apply safe systems of work. This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Identify and take responsibility for own obligations for health, safety and welfare issues</li> <li>• Manage systems that satisfy health, safety and welfare requirements</li> <li>• Develop and implement appropriate hazard identification and risk management systems</li> <li>• Manage, evaluate and improve these systems.</li> </ul>	<p>E2. Manage and apply safe systems of work. This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Identify and take responsibility for own obligations for health, safety and welfare issues</li> <li>• Ensure that systems satisfy health, safety and welfare requirements</li> <li>• Develop and implement appropriate hazard identification and risk management systems</li> <li>• Manage, evaluate and improve these systems.</li> </ul>

Marine Technician (MarTech)	Registered Marine Technologist (RMarTech)	Chartered Marine Technologist (CMarTech)
<p>E3. Undertake work in a way that contributes to sustainable development.</p>	<p>E3. Undertake activities in a way that contributes to sustainable development.</p> <p>This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Operate and act responsibly, taking account of the need to progress environmental, social and economic outcomes simultaneously</li> <li>• Provide products and services which maintain and enhance the quality of the environment and community, and meet financial objectives</li> <li>• Understand and encourage stakeholder involvement in sustainable development.</li> </ul>	<p>E3. Undertake activities in a way that contributes to sustainable development.</p> <p>This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Operate and act responsibly, taking account of the need to progress environmental, social and economic outcomes simultaneously</li> <li>• Use imagination, creativity and innovation to provide products and services which maintain and enhance the quality of the environment and community, and meet financial objectives</li> <li>• Understand and secure stakeholder involvement in sustainable development.</li> </ul>
<p>E4. Carry out continuing professional development, including opportunities for this offered by the IMarEST, to ensure competence in areas and at the level of future intended practice.</p>	<p>E4. Carry out continuing professional development necessary to maintain and enhance competence in own area of practice.</p>	<p>E4. Carry out continuing professional development necessary to maintain and enhance competence in own area of practice.</p> <p>This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Undertake reviews of own development needs</li> <li>• Prepare action plans to meet personal and organisational objectives</li> <li>• Carry out planned (and unplanned) CPD activities</li> <li>• Maintain evidence of competence development</li> <li>• Evaluate CPD outcomes against the action plans</li> <li>• Assist others with their own CPD.</li> </ul>

# MarTech

## Marine Technician



## Marine Technicians (MarTech)

Marine Technicians are professional technologists who harness, exploit, manage, use or apply marine engineering, marine science or marine technology in the pursuit of research and/or the provision of services in the marine sector. Marine Technicians are involved in applying proven techniques and procedures to the solution of practical scientific and technological problems. They carry supervisory or technical responsibility and are competent to exercise creative aptitudes and skills within defined fields of science and technology. Marine Technicians contribute to the design, development, manufacture, commissioning, operation or maintenance of products, equipment, processes, research or services. Marine Technicians are required to apply safe systems of work and possess effective interpersonal skills.

Typically, Marine Technicians will be professionals employed in one of a wide range of technical and commercial roles with ship owners, ship managers, the armed forces, classification societies, maritime administrations, design and research centres, educational establishments and other maritime industry contexts.

Applicants seeking professional registration as a Marine Technician who do not work in these areas will need to demonstrate through their professional education/training and experience in roles directly related to the use or management of marine technology that they are eligible for Marine Technologist registration.

### What is the required knowledge and competence?

Marine Technician is open to everyone who can demonstrate the required knowledge, understanding and professional competence. The exemplifying educational standard is a Level 3 NVQ or an advanced modern apprenticeship in an approved subject or demonstrable equivalent knowledge. A list of suggested qualifications can be found in the guidance document located here (<https://www.gov.uk/what-different-qualification-levels-mean/list-of-qualification-levels>).

There are many routes that can be offered to meet this standard, including a combination of academic awards, vocational qualifications and experiential learning through work competence includes the knowledge, understanding and skills that underpin performance.

Marine Technicians are required to maintain their professional competence, working within professional codes of conduct and participate actively within their profession.

There is also a requirement for continuing professional development, for which IMarEST members are encouraged to use the IMarEST's CPD recording tool (<https://cpd.imarest.org/>).

## Assessment of knowledge and competence

The IMarEST is the only organisation able to confer Marine Technician professional registration on individuals who meet the criteria. To become registered as a Marine Technician, applicants must have their competence assessed by the IMarEST. The assessment is made against standards rigorously assessed by the IMarEST's Membership Committee, as being suitable for MarTech.

The process of assessment starts with a written application to the IMarEST's Membership Team. Submitted qualifications, experience and training will require formal documented evidence. In giving details of experience, applicants will need to show how this relates to the required competencies for MarTech.

If questions arise in the application, the Membership Committee will usually be able to suggest ways in which they can be addressed, (this may involve further learning, training or additional experience). If a candidate receives a positive decision on their application for MarTech, they will become registered as a Marine Technician and their details will be included on the Register of Marine Technicians. Retention of the designation will require continued membership of the IMarEST and payment of the required subscription.

## What needs to be demonstrated?

### EDUCATION

Normally, formal education is a pre-requisite for registration, as it demonstrates the underpinning knowledge and understanding for professional competence.

For MarTech, the exemplifying qualification is Level 3 qualification in England or equivalent. This can include any relevant or cognate course as defined by the UK government (<https://www.gov.uk/what-different-qualification-levels-mean/list-of-qualification-levels>).

### STANDARD ROUTE

Integrated training and experience such as is provided by many advanced apprenticeships can provide most, or all, of the knowledge and experience necessary, and may lead directly to Marine Technician registration. Other qualifications can provide a straightforward way of demonstrating that part of the necessary competence has been acquired. The following are examples of qualifications which an applicant for Marine Technician registration might hold:

#### An approved National Certificate or National Diploma

Vocational qualifications typically aligned to RQF Level 3 (England, Wales, NI) or SCQF Level 6 (Scotland). They demonstrate advanced technical knowledge and practical competence in a specialist area. IMarEST recognises these when they are in relevant marine, engineering, or science disciplines and delivered by an accredited awarding body.

#### An approved qualification at Level 6 in the Scottish Qualifications and Credit Framework (SCQF)

SCQF Level 6 corresponds to the Scottish Higher or equivalent vocational qualifications. Holders are expected to:

- Apply a broad range of knowledge and skills in varied contexts.
- Exercise autonomy and some supervisory responsibility.
- Demonstrate competence in planning, problem-solving, and quality improvement.

**A City & Guilds Higher Professional Diploma**

This is generally mapped to Level 4 or 5 in the UK frameworks and is designed for advanced technical and managerial roles. It includes:

- Specialist units in technical subjects.
- Assessment through assignments and practical application.
- Alignment with National Occupational Standards.

**A technical certificate as part of an approved advanced apprenticeship programme**

Technical certificates form the knowledge component of an advanced apprenticeship (usually Level 3). They:

- Cover theoretical understanding of the occupation.
- Complement on-the-job training and competence assessment.
- Must be part of a programme recognised by IMarEST for marine or engineering pathways.

**An NVQ3 or SVQ3, approved by IMarEST**

NVQ/SVQ Level 3 qualifications confirm competence in a real work environment for skilled roles. They:

- Require evidence of practical performance and underpinning knowledge.
- Are assessed through workplace observation and portfolio building.
- Must be in a relevant marine or engineering discipline and approved by IMarEST.

**A work-based learning route approved by IMarEST**

This route allows candidates to demonstrate professional competence through structured workplace experience. It involves:

- Documented learning outcomes aligned with IMarEST standards.
- Evidence of applying technical and scientific principles in practice.
- Ongoing CPD and mentor support.

Qualifications at this level are subject to change as a result of national policy developments. Please consult our guidance document for details of any changes or additions to this list.

## Experiential route

Many potential professional Marine Technicians will not have had the advantage of formal education or qualifications and will need to demonstrate they have acquired the necessary competences through extended experience, some of this supervised.

Experienced, practising professional Marine Technicians are often found to have gained the necessary knowledge and skills for their job through working closely with other skilled colleagues over a number of years. Thus, individuals without the types of qualifications listed above may apply for an Individual Route assessment. This separate procedure, administered by the IMarEST, involves an in-depth appraisal of the applicant's competence. Evidence of employer recognition of competences and relevant skills will assist in achieving registration. The IMarEST recommends for those without the exemplifying qualifications that they seek out a mentor through the [IMarEST's M2M mentoring tool](#) (available to members only) in order for a mentor to help applicants to address any gaps in their training and experience portfolio.

If these approved qualifications are not presented, it is possible to demonstrate the appropriate level of achievement through a combination of academic awards and/or appropriate experiential learning. Candidates applying through this route must clearly demonstrate that they have achieved the same level of knowledge and understanding and application of those with the accredited qualifications. The IMarEST has proven benchmarks and procedures in place to measure the required level through professional experience and knowledge gained specific to their scientific and technological discipline.

IMarEST may accept other qualifications if:

- They are in marine engineering, science, or technology.
- They meet the same learning outcomes and competence standards.
- Assessment confirms equivalence to the benchmark qualifications listed above

These candidates would be assessed through our Individual Case Procedure Panel.

## Competence

The following table details the generic competences that have to be demonstrated in order to achieve registration as a Marine Technician.

Marine Technicians must be competent throughout their professional lives using a combination of their knowledge, training and experience to be able to:

The Competence and Commitment Standards for Marine Technicians	Guidance – These are examples of activities which could demonstrate that you have achieved the MarTech criteria.
Marine Technicians must be competent throughout their working life, by virtue of their education, training and experience, to:	Tell us about your career and the education and training you have received. Explain how the experience you have gained has made you more competent.
<b>A. Use appropriate knowledge and understanding to apply technical and practical skills. This includes the ability to:</b>	<b>The reviewers will be looking for evidence that you have the know-how to do the job and were able to go beyond the immediate requirements and use your initiative and experience to solve a problem or improve a process.</b>
A1. Review and select appropriate techniques, procedures and methods to undertake tasks.	Describe something in your work you were involved in which didn't quite work and explain why.
A2. Use appropriate principles.	Drawing from your direct experience, this might be an explanation of how a piece of equipment, system or mechanism works.
<b>B. Contribute to the design, development, manufacture, construction, commissioning, operation or maintenance of products, equipment, processes, systems or services. In this context, this includes the ability to:</b>	<b>Explain how you contribute to one or more of these activities.</b>
B1. Identify problems and apply diagnostic methods to identify causes and achieve satisfactory solutions.	Show an example of how you have used measurement, monitoring and assessment to identify the source of a problem or to identify an opportunity.

## The Competence and Commitment Standards for Marine Technicians

## Guidance – These are examples of activities which could demonstrate that you have achieved the MarTech criteria.

B2. Identify, organise and use resources effectively to complete tasks, with consideration for cost, quality, safety and environmental impact.

Illustrate how you make decisions about what material, component, people or plant to use or how to introduce a new method of working.

### C. Accept and exercise personal responsibility. This may include the ability to:

**Describe an experience or instance where you have had to accept personal responsibility for seeing a process through to completion within agreed targets.**

C1. Work reliably and effectively without close supervision, to the appropriate codes of practice.

Your evidence should show how you personally identified and agreed with what had to be done and to what standards on a typical project.

C2. Accept responsibility for work of self and others.

Minutes of meetings; site notes and instructions; Variation Orders; programmes of work; specifications, drawing and reports; appraisals. Activity not associated with your job can contribute evidence.

C3. Accept, allocate and supervise technical and other tasks.

Minutes of meetings; site notes and instructions; Variation Orders; programmes of work; specifications, drawing and reports; appraisals. Activity not associated with your job can contribute evidence.

### D. Use effective communication and interpersonal skills. This includes the ability to:

**You will need to show you can: contribute to discussions; make a presentation; read and synthesise information; write different types of documents.**

D1. Use oral, written and electronic methods for the communication in English of technical and other information.

Letters, reports, drawings, advice, minutes, including progress meetings, appraisals, work instructions, and other task planning and organising documents certificated by colleagues, clients, customers or management. Your application itself will be relevant.

D2. Work effectively with colleagues, clients, suppliers and the public.

Examples of how this has occurred, and your role at the time.

## The Competence and Commitment Standards for Marine Technicians

**Guidance –** These are examples of activities which could demonstrate that you have achieved the MarTech criteria.

**E. Make a personal commitment to an appropriate code of professional conduct, recognising obligations to society, the profession and the environment. In order to satisfy this commitment, they must:**

Your commitment will be to become part of the profession and uphold the standards to which all members subscribe. You need to show that you have read and understood the IMarEST's Code of Conduct.

E1. Comply with the IMarEST's Code of Conduct.

You will need to sign a personal undertaking.

E2. Manage and apply safe systems of work.

Evidence of applying current safety requirements, such as examples of good practice you adopt in your work. You will need to show that you have received a formal safety instruction relating to your workplace, such as a CSCS safety test, or an update on statutory regulations such as COSHH requirements.

E3. Undertake work in a way that contributes to sustainable development.

Examples of methodical assessment of risk in specific projects; actions taken to minimise risk to health, safety, society or the environment.

E4. Carry out continuing professional development, including opportunities for this offered by the IMarEST, to ensure competence in areas and at the level of future intended practice.

This means demonstrating that you have actively sought to keep yourself up to date, perhaps by studying new standards or techniques, or made use of magazines, branch meetings and other opportunities to network in order to keep abreast of change. A CPD log should be produced for the assessment, including evidence of reflection of learning.

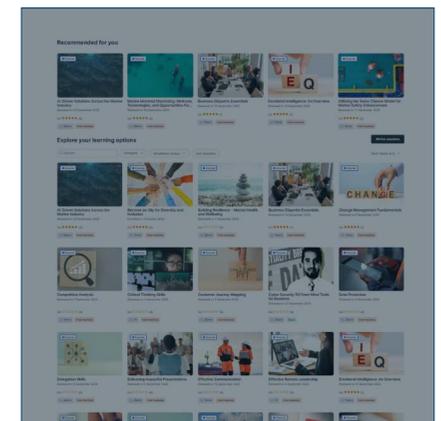
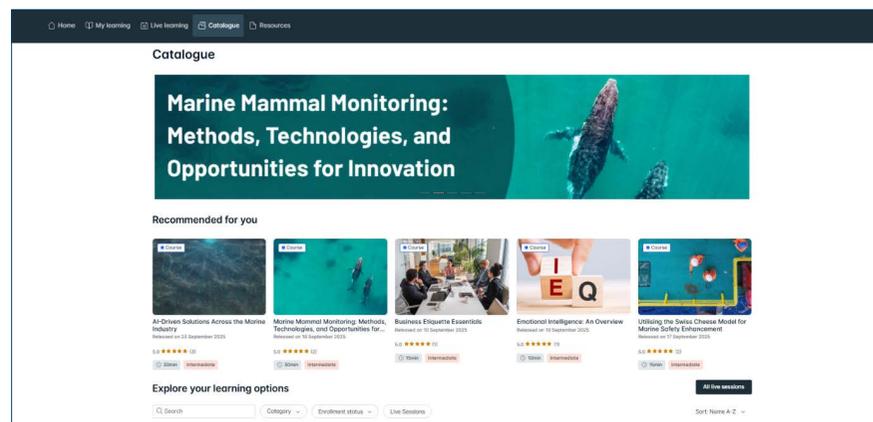
## Continuous Professional Development (CPD)

Professional development is a key part of developing the competence required to achieve the standard for Marine Technician registration. Aspiring Marine Technicians learn to apply their knowledge and understanding and apply professional judgement through professional development. Many larger employers run well-established training and development schemes, some of which are accredited by the IMarEST for the purposes of MarTech registration.

Accredited professional development schemes, however, are not the only route to achieving the professional development necessary for MarTech registration. In the absence of an accredited scheme, aspiring Marine Technicians will need to develop levels of competence and professional activity in accordance with the competence and commitment statements mentioned earlier.

Anyone seeking registration as a Marine Technician should maintain a detailed record of their development, responsibilities and experience, verified by referees, in order to be best prepared to provide the evidence of professional competence commensurate for MarTech registration. IMarEST provides a CPD tool which we encourage our members to use, which can be found at <https://cpd.imarest.org/>.

We recommend aspiring registrants consult the IMarEST's Professional Development Guidance document found on our website (<https://www.imarest.org/education-and-training/learning.html>) for further information about CPD and its importance.



## Maintaining competence and demonstrating a commitment to CPD

Once MarTech registration has been achieved, Marine Technicians have an obligation to maintain professional competence. Guidance on CPD as well as an online CPD tool can be found on the IMarEST website (<https://cpd.imarest.org/>).

The image displays three screenshots from the IMarEST CPD platform. The top-left screenshot shows the 'CPD Dashboard' for an 'Active Member'. It features a navigation menu with 'Dashboard', 'My Activities', 'Settings', and 'Complete more CPD with MarEST'. Below this is a table of CPD activities:

NAME	ACTIVITY TYPE	DATE	HOURS	STATUS	ACTIONS
<input type="checkbox"/> Tell us what type of learning you would like to use	Self-directed learning/progression	20/07/2026	0.1	Waiting for reference	👁️ 🗑️
<input type="checkbox"/> Cyber Security 101 from Reed Tools for Business	Structured training	16/10/2025	0.5	Completed	👁️ 🗑️
<input type="checkbox"/> Change Management Fundamentals	Structured training	16/10/2025	0.25	In Progress	👁️ 🗑️
<input type="checkbox"/> Emotional Intelligence: An Overview	Structured training	16/10/2025	0.2	Completed	👁️ 🗑️
<input type="checkbox"/> AI-Driven Solutions Across the Marine Industry	Structured training				👁️ 🗑️
<input type="checkbox"/> Owners of Knowledge	No activity type assigned				👁️ 🗑️

The top-right screenshot shows the details for the course 'AI-Driven Solutions Across the Marine Industry'. It includes a progress bar showing 100% completion, a 'Revisit' button, and course statistics: 5 modules, 30 minutes, and an intermediate level.

The bottom screenshot shows the 'Certificates and credits' section, displaying two certificates: 'IMarEST CPD Certificate' and '0.5 Continuous Professional Development'. Below this is a 'Top reviews' section with three 5.0 star reviews from anonymous users.

## The IMarEST's rules of Professional Conduct

All corporate members of the Institute are required to make a personal commitment to live by the appropriate codes of professional conduct, recognising their obligations to society, the marine professions and the environment ([www.imarest.org/membership/conduct](http://www.imarest.org/membership/conduct)).

# RMarTech

## Registered Marine Technologist



## Registered Marine Technologists (RMarTech)

Registered Marine Technologists are professionals who harness, exploit, manage, use or apply marine technology in the pursuit of the provision of services in the marine sector. Registered Marine Technologists are characterised by their ability to act as exponents of today's technology through creativity and innovation. To this end, they maintain and manage applications of current and developing technology, and may undertake technological design, development, manufacture, construction and operation. Registered Marine Technologists are variously engaged in technical and commercial management and possess effective interpersonal skills.

Typically, Registered Marine Technologists will be professionals from the following disciplines: Fleet Managers, Hydrographers, Marine Superintendents (Deck), Meteorologists, Pilots, Marine Logisticians, Deck Officers and Ratings, Marine Surveyors, Shipping Professionals, Harbourmasters, College Lecturers, Navigators, Radar/Sonar Maintenance Experts, Warfare Officers and Ratings and Naval Officers and Ratings.

Applicants seeking professional registration as a Registered Marine Technologist, who do not work in these areas, will need to demonstrate through their professional education/training and experience in roles directly related to the use or management of marine technology that they are eligible for Registered Marine Technologist Registration.

## What is the required knowledge and competence?

Registered Marine Technologist is open to everyone who can demonstrate the required high-level knowledge, understanding and professional competence.

The exemplifying educational standard is a Bachelor's ordinary level qualification in an approved subject. There are many routes that can be measured to meet this standard, including a combination of academic awards, vocational qualifications and demonstrable experiential knowledge through work. Competence includes the knowledge, understanding and skills that underpin performance.

Registered Marine Technologists are required to maintain their professional competence, working within professional codes of conduct and participate actively within their profession. There is also a requirement for continuing professional development.

## Assessment of knowledge and competence

The IMarEST is the only organisation able to confer Registered Marine Technologist on individuals, who meet the criteria.

To become registered as a Registered Marine Technologist, applicants must have their competence assessed by the IMarEST. The assessment is made against standards rigorously assessed by the IMarEST's Professional Affairs and Education Committee and the Membership Committee, as being suitable for RMarTech.

The process of assessment starts with a written application to the IMarEST's Membership Team. Claims to qualifications, experience and training will require formal documented evidence. In giving details of experience, applicants will need to show how this relates to the required competencies for RMarTech.

If questions arise in the application, the Membership Committee will usually be able to suggest ways in which they can be addressed (this may involve further learning, training or additional experience). If a candidate receives a positive decision on their application for RMarTech, they will become registered as a Registered

Marine Technologist and their details will be included on the Register of Registered Marine Technologists. Retention of the designation will require continued membership of the IMarEST and payment of the required subscription.

A list of suggested qualifications can be found in the guidance document located here (<https://www.gov.uk/what-different-qualification-levels-mean/list-of-qualification-levels>).

Following a review of the documented evidence, the Membership Committee will require the applicant to undertake a professional review interview (PRI). The Membership Team will inform the candidate of the necessary procedures. If deficiencies in the application emerge, the Membership Panel will usually be able to suggest ways in which they can be addressed (this may involve further learning, training or additional experience). If a candidate receives a positive decision on their application for RMarTech, they will become registered as a Registered Marine Technologist and their details will be included on the Register of Registered Marine Technologists. Retention of the designation will require continued membership of the IMarEST and payment of the required subscription.

## What needs to be demonstrated?

### EDUCATION

Normally, formal education is an essential pre-requisite for registration, as it demonstrates the underpinning knowledge and understanding for professional competence. The following qualifications exemplify the required knowledge and understanding for Registered Marine Technologist registration.

#### **An IMarEST-accredited Bachelor's Ordinary Degree (Level 6)**

This refers to a Bachelor's degree aligned with RQF Level 6 (England, Wales, NI) or SCQF Level 9 (Scotland), accredited by IMarEST.

Such programmes provide intermediate academic and/or professional knowledge, skills, and competences, leading to a first degree.

Accreditation ensures the course meets IMarEST's requirements for professional registration and marine industry standards.

**A Higher National Certificate (HNC), Higher National Diploma (HND), or Foundation Degree, plus appropriate further learning to degree level**

HNC = Level 4 (equivalent to first year of a degree).

HND / Foundation Degree = Level 5 (equivalent to first two years of a degree).

These must be supplemented by further learning (e.g., a top-up degree or structured CPD) to achieve Level 6 equivalence.

Foundation Degrees combine academic study and work-based learning, making them a strong pathway to full degree-level competence.

**Any Level 4 or 5 qualifications must be supplemented with work experience as a means of demonstrating Level 6 learning**

Candidates holding Level 4 or 5 qualifications (HNC, HND, Foundation Degree) must show additional learning outcomes equivalent to Level 6.

This is typically achieved through:

- Structured work-based learning in a relevant technical or scientific role.
- Evidence of applying advanced principles and problem-solving at a professional level.

IMarEST assesses this through documented experience and competency mapping against Level 6 standards. Assessments are done by the IMarEST's Individual Case Procedure Panel.

## Experiential Route

If an accredited Bachelor's ordinary degree level qualification is not present, it is possible to demonstrate Bachelor's ordinary degree level achievement through a combination of academic awards and/or appropriate experiential learning.

Candidates applying through this route must clearly demonstrate that they have achieved the same level of knowledge and understanding as those with the accredited qualifications. For example, a HND qualification supported by appropriate professional experience may be sufficient to demonstrate a Bachelor's level knowledge. The IMarEST has proven benchmarks and procedures in place to measure Bachelor's ordinary degree level learning through professional experience and knowledge gained specific to their technological discipline.

## Competence

The following table details the generic competences that have to be demonstrated in order to achieve registration as a Registered Marine Technologist. Given the diverse nature of technological practice, achieving the required level for these professional competencies will involve a broad range of activities. Candidates who believe they meet these or who wish to work towards them, should approach the IMarEST's Membership Team to obtain further details on how to apply for registration.

Registered Marine Technologists must be competent throughout their professional lives using a combination of their knowledge, training and experience to be able to:

The Competence and Commitment Standard for Registered Marine Technologists.	Guidance – These are examples of activities which could demonstrate that you have achieved the RMarTech criteria.
Registered Marine Technologists must be competent throughout their working life, by virtue of their education, training and experience, to:	
<b>A. Use a combination of general and specialist knowledge and understanding to apply existing and emerging technology.</b>	
<p>A1. Maintain and extend a sound theoretical approach to the application of technology in practice.</p> <p>This could include an ability to:</p> <ul style="list-style-type: none"> <li>• Identify the limits of own personal knowledge and skills</li> <li>• Strive to extend own technological capability</li> <li>• Broaden and deepen own knowledgebase through new applications and techniques.</li> </ul>	<p>Engage in formal learning. Learn new theories and techniques in the workplace, at seminars, etc.</p> <p>Broaden your knowledge of relevant codes, standards and specifications.</p>

## The Competence and Commitment Standard for Registered Marine Technologists.

A2. Use a sound evidence-based approach to problem-solving and contribute to continuous improvement.

This could include an ability to:

- Establish users' requirements for improvement
- Use market intelligence and knowledge of technological developments to promote and improve the effectiveness of products, systems and services
- Contribute to the evaluation and development of continuous improvement systems
- Apply knowledge and experience to investigate and solve problems arising during tasks and implement corrective action.

**B. Apply appropriate theoretical and practical methods to design, develop, manufacture, construct, commission, operate, maintain, decommission and recycle processes, systems, services and products.**

B1. Identify, review and select techniques, procedures and methods to undertake tasks.

This could include an ability to:

- Select a review methodology
- Review the potential for enhancing products, processes, systems and services, using evidence from best practice
- Establish an action plan to implement the results of the review.

## Guidance – These are examples of activities which could demonstrate that you have achieved the RMarTech criteria.

Manage/contribute to market research, and product and process research and development. Involvement with cross-disciplinary working. Conduct statistically sound appraisal of data. Use evidence from best practice to improve effectiveness. Apply root cause analysis.

Contribute to the marketing of and tendering for new products, processes and systems. Contribute to the specification and procurement of new products, processes and systems. Develop decommissioning processes. Set targets, and draft programmes and action plans. Schedule activities.

## The Competence and Commitment Standard for Registered Marine Technologists.

### B2. Contribute to the design and development of solutions.

This could include an ability to:

- Contribute to the identification and specification of design and development requirements for products, processes, systems and services
- Identify potential operational problems and evaluate possible solutions, taking account of cost, quality, safety, reliability, appearance, fitness for purpose and environmental impact
- Contribute to the design of solutions.

### B3. Implement design solutions and contribute to their evaluation.

This could include an ability to:

- Secure the resources required for implementation
- Implement design solutions, taking account of critical constraints
- Identify problems during implementation and take corrective action
- Contribute to the evaluation of design solutions
- Contribute to recommendations for improvement and actively learn from feedback on results.

## C. Provide technical and commercial management.

### C1. Plan for effective project implementation.

This could include an ability to:

- Identify the factors affecting the project implementation
- Prepare and agree implementation plans and method statements
- Secure the necessary resources
- Feed the results back to improve the proposals.

## Guidance – These are examples of activities which could demonstrate that you have achieved the RMarTech criteria.

Contribute to theoretical and applied research.

Manage/contribute to value and whole life costing. Work in design teams.

Draft specifications. Develop and test options. Identify resources and costs of options.

Produce detailed designs.

Follow the design process through into product manufacture. Operate and maintain processes, systems etc. Contribute to reports on the evaluation of the effectiveness of the designs. Contribute to product improvement. Interpret and analyse performance. Contribute to determining critical success factors.

Manage/contribute to project planning activities. Produce and implement procurement plans.

Contribute to project risk assessments.

Collaborate with key stakeholders. Plan programmes and delivery of tasks. Identify resources and costs.

Prepare and agree contracts/work orders.

## The Competence and Commitment Standard for Registered Marine Technologists.

### D3. Demonstrate personal and social skills.

This could include an ability to:

- Know and manage own emotions, strengths and weaknesses
- Be aware of the needs and concerns of others
- Be confident and flexible in dealing with new and changing interpersonal situations
- Identify, agree and work towards collective goals
- Create, maintain and enhance productive working relationships, and resolve conflicts.

### E. Demonstrate a personal commitment to professional standards, recognising obligations to society, the profession and the environment.

This could include an ability to:

- Undertake reviews of own development needs
- Prepare action plans to meet personal and organisational objectives
- Carry out planned (and unplanned) CPD activities
- Maintain evidence of competence development
- Evaluate CPD outcomes against the action plans
- Assist others with their own CPD.

### E1. Comply with relevant codes of conduct. This could include an ability to:

- Comply with the IMarEST's rules of professional conduct of own professional body
- Manage work within all relevant legislation and regulatory frameworks, including social and employment legislation.

## Guidance – These are examples of activities which could demonstrate that you have achieved the RMarTech criteria.

Records of meetings. Evidence from colleagues of your personal and social skills. Contribute to productive working relationships. Apply diversity and anti-discrimination legislation.

IMarEST. Evidence of your development through on- the-job learning, private study, in-house courses, external courses and conferences.

Contribute to the affairs of the IMarEST.

Work with a variety of conditions of contract.

## The Competence and Commitment Standard for Registered Marine Technologists.

E2. Manage and apply safe systems of work. This could include an ability to:

- Identify and take responsibility for own obligations for health, safety and welfare issues
- Manage systems that satisfy health, safety and welfare requirements
- Develop and implement appropriate hazard identification and risk management systems
- Manage, evaluate and improve these systems.

E3. Undertake activities in a way that contributes to sustainable development.

This could include an ability to:

- Operate and act responsibly, taking account of the need to progress environmental, social and economic outcomes simultaneously
- Provide products and services which maintain and enhance the quality of the environment and community, and meet financial objectives
- Understand and encourage stakeholder involvement in sustainable development.

E4. Carry out continuing professional development necessary to maintain and enhance competence in own area of practice.

## Guidance – These are examples of activities which could demonstrate that you have achieved the RMarTech criteria.

Undertake formal H&S training. Work with H&S legislation and best practice, e.g. HASAW 1974, CDM regs, OHSAS 18001:2007, ISO 45001 and company safety policies. Carry out safety audits. Identify and minimise hazards. Assess and control risks.

Deliver H&S briefings & inductions.

Carry out/contribute to environmental impact assessments. Carry out/contribute to environmental risk assessments.

Manage best practice environmental management systems, e.g. ISO 14000. Work within environmental legislation.

Adopt sustainable practices. Contribute to “triple bottom line” (i.e. social, economic and environmental) outcomes.

Keep up to date with relevant national and international issues. Maintain CPD plans and records.

Involvement with the affairs of the IMarEST.

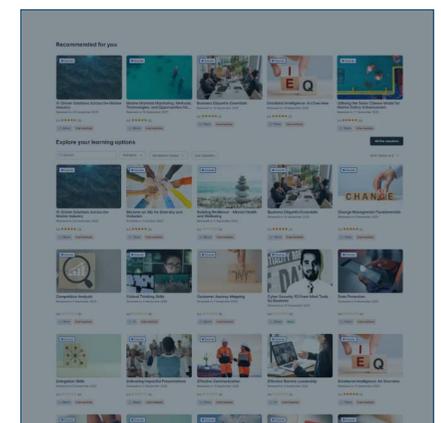
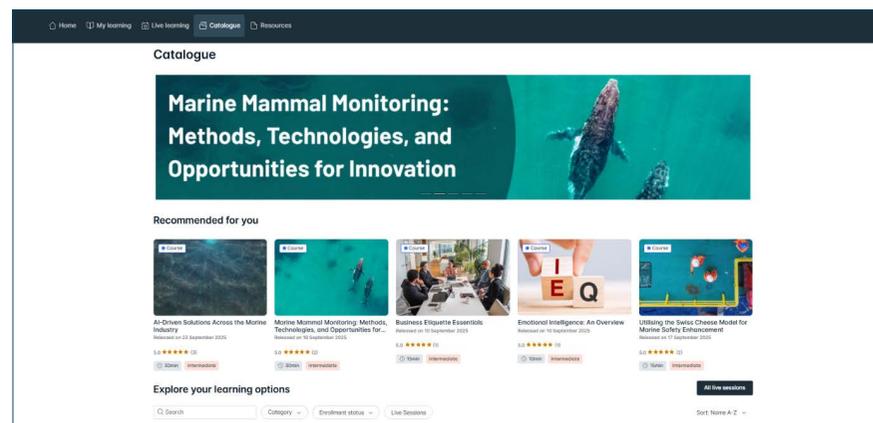
## Continuous Professional Development (CPD)

Professional development is a key part of developing the competence required to achieve the standard for Registered Marine Technologist registration. Aspiring Registered Marine Technologists learn to apply their knowledge and understanding and apply professional judgement through professional development. Many larger employers run well-established graduate training and development schemes, some of which are accredited by the IMarEST for the purposes of RMarTech registration.

Accredited professional development schemes, however, are not the only route to achieving the professional development necessary for RMarTech registration. In the absence of an accredited scheme, aspiring Registered Marine Technologists will need to develop profiles of competence and professional activity in accordance with the competence and commitment statements mentioned earlier.

Anyone seeking registration as a Registered Marine Technologist should maintain a detailed record of their development, responsibilities and experience, verified by referees, in order to be best prepared to provide the evidence of professional competence commensurate for RMarTech registration. IMarEST provides a CPD tool which we encourage our members to use, which can be found at <https://cpd.imarest.org/>.

We recommend aspiring registrants consult the IMarEST's Professional Development Guidance document found on our website (<https://www.imarest.org/education-and-training/learning.html>) for further information about CPD and its importance.



## Maintaining competence and demonstrating a commitment to CPD

Once RMarTech registration has been achieved, Registered Marine Technologists have an obligation to maintain professional competence. Guidance on CPD as well as an online CPD tool can be found on the IMarEST website (<https://cpd.imarest.org/>).

The image displays three screenshots from the IMarEST CPD Dashboard. The top-left screenshot shows the 'CPD Dashboard' with a table of activities. The top-right screenshot shows the details for the course 'AI-Driven Solutions Across the Marine Industry'. The bottom screenshot shows the 'Certificates and credits' section, including a table of certificates and a list of top reviews.

NAME	ACTIVITY TYPE	DATE	HOURS	STATUS	ACTIONS
Tell us what type of learning you would like to see	Self-directed learning/assessment	28/07/2024	0.1	Waiting for reflection	👁️ 🗑️
Cyber Security 101 from Mind Tools for Business	Structured training	10/02/2025	0.5	Completed	👁️ 🗑️
Change Management Fundamentals	Structured training	19/02/2025	0.25	In Progress	👁️ 🗑️
Emotional Intelligence - An Overview	Structured training	19/02/2025	0.2	Completed	👁️ 🗑️
AI-Driven Solutions Across the Marine Industry	Structured training				
Oceans of Knowledge	No activity type assigned				

**AI-Driven Solutions Across the Marine Industry**  
 COMPLETED ON OCT 18, 2024  
 4.8 ⭐⭐⭐⭐⭐ 36 reviews  
 You successfully completed this course (earned 0.5 CPD hours)  
 [Dashboard] [Re-assess] [Download certificate] [Share certificate]

COURSE INFO  
 CREDITS: 5 modules | CREDIT HOURS: 30 minutes | LEVEL: Intermediate

**Certificates and credits**

CERTIFICATE	CREDITS
IMarEST CPD Certificate	0.5 Continuous Professional Development

**Top reviews**

- reiner** 5.0 ⭐⭐⭐⭐⭐  
gained some new insights I wasn't aware of!
- Anonymous** 5.0 ⭐⭐⭐⭐⭐  
A good introduction to the main related topics, something to build on.
- Anonymous** 5.0 ⭐⭐⭐⭐⭐  
It's a great knowledge expansion to understand the use of AI-driven solutions in the maritime sector.
- Anonymous** 5.0 ⭐⭐⭐⭐⭐  
Course is helpful in understanding AI implications and obligations to be taken when implementing AI in the industry.

## The IMarEST's rules of Professional Conduct

All Corporate Members of the Institute are required to make a personal commitment to live by the appropriate codes of professional conduct, recognising their obligations to society, the marine professions and the environment ([www.imarest.org/membership/conduct](http://www.imarest.org/membership/conduct)).

# CMarTech

## Chartered Marine Technologist

## Chartered Marine Technologists (CMarTech)

Chartered Marine Technologists are professionals, who harness, exploit, manage, use or apply marine technology in the pursuit of wealth creation and/or the provision of services in the marine sector. Chartered Marine Technologists are characterised by their ability to deal with complex issues, both systematically and creatively and can make sound judgements in the absence of complete data to develop solutions to problems and communicate their conclusions clearly to specialist and non-specialist audiences.

Chartered Marine Technologists continue to advance their knowledge, understanding and competence to a high level and are bound by an IMarEST Code of Conduct ([www.imarest.org](http://www.imarest.org)).

Typically, Chartered Marine Technologists will be professionals from the following disciplines: Fleet Managers, Hydrographers, Marine Superintendents(Deck), Meteorologists, Pilots, Marine Logisticians, Deck Officers and Ratings, Marine Surveyors, Shipping Professionals, Harbour Masters, College Lecturers, Navigators, Radar/Sonar Maintenance Experts, Warfare Officers and Ratings and Naval Officers and Ratings.

Applicants seeking professional registration as a Chartered Marine Technologist, who do not work in these areas, will need to demonstrate through their professional education/training and experience in roles directly related to the use or management of marine technology that they are eligible for Chartered Marine Technologist Registration.

## What is the required knowledge and competence?

Chartered Marine Technologist is open to everyone, who can demonstrate the required high-level knowledge, understanding and professional competence. The exemplifying educational standard is a Master's level qualification in an approved subject. There are many routes that can be measured to meet this standard, including a combination of academic awards, vocational qualifications and experiential learning through work.

Competence includes the knowledge, understanding and skills that underpin performance.

Chartered Marine Technologists are required to maintain their professional competence, working within professional codes of conduct and participate actively within their profession. There is also a requirement for continuing professional development.

## Assessment of knowledge and competence

The IMarEST is the only organisation able to confer Chartered Marine Technologist on individuals, who meet the criteria.

To become registered as a Chartered Marine Technologist, applicants must have their competence assessed by the IMarEST. The assessment is made against standards rigorously applied by the IMarEST's Professional Affairs and Education Committee and the Membership Committee, as being suitable for CMarTech.

The process of assessment starts with an online application to the IMarEST's Membership Team. Claims to qualifications, experience and training will require formal documented evidence. In giving details of experience, applicants will need to show how this relates to the required competencies for CMarTech.

Following a review of the documented evidence, the Membership Committee will require the applicant to undertake a professional review interview (PRI). The Membership Team will inform the candidate of the necessary procedures. If deficiencies in the application emerge, the Member Panel will usually be able to suggest ways in which they can be addressed (this may involve further learning, training or additional

experience). If a candidate receives a positive decision on their application for CMarTech, they will become registered as a Chartered Marine Technologist and their details will be included on the Register of Chartered Marine Technologists. Retention of the designation will require continued membership of the IMarEST and payment of the required subscription.

## What needs to be demonstrated?

### EDUCATION

Normally, a formal education is an essential pre-requisite for registration as it demonstrates the underpinning knowledge and understanding for professional competence. The following qualifications exemplify the required knowledge and understanding for Chartered Marine Technologist Registration:

#### **An IMarEST-accredited Integrated Master's degree**

An Integrated Master's combines undergraduate and postgraduate study into a single continuous programme, typically lasting four to five years.

It results in a Master's-level qualification (Level 7) and is accredited by IMarEST to meet the knowledge and competence requirements for professional registration.

Accreditation ensures the programme covers advanced technical, scientific, and managerial learning outcomes relevant to marine engineering, science, or technology.

#### **An IMarEST-accredited Bachelor's degree with honours, plus either:**

- **An appropriate Master's degree accredited by IMarEST, or**
- **Further learning to Master's level (e.g., structured CPD, postgraduate modules, or work-based learning assessed against Level 7 standards).**

This route ensures candidates demonstrate postgraduate-level knowledge and application, even if their initial degree was at honours level only.

**Any Level 4 to 6 qualifications must be supplemented with work experience as a means of demonstrating Level 7 learning**

Advanced learning outcomes equivalent to Level 7, achieved through structured work-based learning.

Application of complex principles, problem-solving, and leadership in professional practice.

IMarEST assesses this through documented experience, competency mapping, at the Individual Case Procedure Panel.

## Experiential route

If an accredited Master's level qualification is not presented, it is possible to demonstrate Master's level achievement through a combination of academic awards and/or appropriate experiential learning. Candidates applying through this route must clearly demonstrate that they have achieved the same level of knowledge and understanding, as those with the accredited qualifications. For example, a Bachelor's qualification supported by appropriate professional experience may be sufficient to demonstrate a Master's level knowledge. The IMarEST has proven benchmarks and procedures in place to measure Master's level learning through professional experience and knowledge gained specific to their technological discipline.

## Competencies

The following table details the generic competences that have to be demonstrated in order to achieve registration as a Chartered Marine Technologist. Given the diverse nature of technological practice, achieving the required level for these professional competencies will involve a broad range of activities. Candidates who believe they meet these or who wish to work towards them, should approach the IMarEST's Membership Team to obtain further details on how to apply for registration.

Chartered Marine Technologists must be competent throughout their professional lives using a combination of their knowledge, training and experience to be able to:

## The Competence and Commitment Standard for Chartered Marine Technologists.

Chartered Marine Technologists must be competent throughout their working life, by virtue of their education, training and experience, to:

### A. Use a combination of general and specialist knowledge and understanding to optimise the application of existing and emerging technology.

A1. Maintain and extend a sound theoretical approach in enabling the introduction and exploitation of new and advancing technology and other relevant developments.

This could include an ability to:

- Identify the limits of own personal knowledge and skills
- Strive to extend own technological capability
- Broaden and deepen own knowledgebase through research and experimentation.

A2. Engage in the creative and innovative development of systems, processes and products and continuous improvement systems.

This could include an ability to:

- Establish users' needs
- Assess marketing needs and contribute to marketing strategies
- Identify constraints and exploit opportunities for the development and transfer of technology within own chosen field
- Promote new applications when appropriate
- Secure the necessary intellectual property rights
- Develop and evaluate continuous improvement systems.

## Guidance – These are examples of activities which could demonstrate that you have achieved the CMarTech criteria.

Engage in formal post-graduate academic study. Learn and develop new relevant theories and techniques in the workplace.

Broaden your knowledge of appropriate codes, standards and specifications.

Lead/manage market research, and product and process research and development.

Cross-disciplinary working involving complex projects.

Conduct statistically sound appraisal of data demonstrating good data literacy.

## The Competence and Commitment Standard for Chartered Marine Technologists.

### B. Apply appropriate theoretical and practical methods to the analysis and solution of problems.

#### B1. Identify potential projects and opportunities.

This could include an ability to:

- Explore the territory within own responsibility for new opportunities
- Review the potential for enhancing products, processes, systems and services
- Use own knowledge of the employer's position to assess the viability of opportunities.

#### B2. Conduct appropriate research and undertake design and development of solutions.

This could include an ability to:

- Identify and agree appropriate research methodologies
- Assemble the necessary resources
- Carry out the necessary tests
- Collect, analyse and evaluate the relevant data
- Draft, present and agree design recommendations, taking account of cost, quality, safety, reliability, appearance, fitness for purpose and environmental impact
- Undertake design.

## Guidance – These are examples of activities which could demonstrate that you have achieved the CMarTech criteria.

Involvement in the marketing of and tendering for new products, processes and systems.  
 Involvement in the specification and procurement of new products, processes and systems.  
 Set targets, and draft programmes and action plans.  
 Schedule activities.

Carry out formal theoretical research. Carry out applied research on the job.  
 Lead/manage value and whole life costing.  
 Lead design teams. Produce concept designs and develop these into detailed designs.  
 Draft specifications. Develop and test options. Identify resources and costs of options.

## The Competence and Commitment Standard for Chartered Marine Technologists.

B3. Implement design solutions and evaluate their effectiveness.

This could include an ability to:

- Ensure that the application of the design results in a practical outcome
- Implement design solutions, taking account of critical constraints
- Determine the criteria for evaluating the design solutions
- Evaluate the outcome against the original specification
- Actively learn from feedback on results to improve future design solutions and build best practice.

### C. Provide technical and commercial leadership.

C1. Plan for effective project implementation.

This could include an ability to:

- Identify the factors affecting the project implementation
- Lead on preparing and agreeing implementation plans and method statements
- Ensure that the necessary resources are secured and brief the project team
- Negotiate the necessary contractual arrangements with other stakeholders (client, subcontractors, suppliers, etc.).

## Guidance – These are examples of activities which could demonstrate that you have achieved the CMarTech criteria.

Follow the design process through into product or service realisation and its evaluation.

Prepare and present reports on the evaluation of the effectiveness of the designs. Manage product improvement. Interpret and analyse performance. Determine critical success factors.

Lead/manage project planning activities. Produce and implement procurement plans. Carry out project risk assessments. Collaborate with key stakeholders and negotiate agreement to the plans. Plan programmes and delivery of tasks. Identify resources and costs. Negotiate and agree contracts/work orders. Oversee ISO ( eg 45001, 31000, 50001 and 26000) standards within your line of work.

## The Competence and Commitment Standard for Chartered Marine Technologists.

C2. Plan, budget, organise, direct and control tasks, people and resources.

This could include an ability to:

- Set up appropriate management systems
- Agree quality standards, programme and budget within legal and statutory requirements
- Organise and lead work teams, coordinating project activities
- Ensure that variations from quality standards, programme and budgets
- Are identified, and that corrective action is taken
- Gather and evaluate feedback and
- Recommend improvements.

C3. Lead teams and develop staff to meet changing technical and managerial needs.

This could include an ability to:

- Agree objectives and work plans with teams and individuals
- Identify team and individual needs, and plan for their development
- Lead and support team and individual development
- Assess team and individual performance and provide feedback.

C4. Bring about continuous improvement through quality management.

This could include an ability to:

- Promote quality throughout the organisation and its customer and supplier networks
- Develop and maintain operations to meet quality standards
- Direct project evaluation and propose Recommendations for improvement.

## Guidance – These are examples of activities which could demonstrate that you have achieved the CMarTech criteria.

Take responsibility for and control project operations. Manage the balance between quality, cost and time. Manage contingency systems.

Manage project funding, payments and recovery. Satisfy legal and statutory obligations.

Lead/manage tasks within identified financial, commercial and regulatory constraints.

Carry out/contribute to staff appraisals. Plan/contribute to the training and development of staff. Gather evidence from colleagues of the management, assessment and feedback that you have provided. Carry out/contribute to disciplinary procedures. Be actively involved in the mentoring/coaching of others. Ensure visible safety leadership. Demonstrate empathy and psychological safety with the teams you lead.

Plan and implement best practice methods of continuous improvement, e.g. ISO 9000, EFQM, balanced scorecard. Carry out quality audits.

Monitor, maintain and improve delivery. Identify, implement and evaluate changes to meet quality objectives.

## The Competence and Commitment Standard for Chartered Marine Technologists.

**Guidance** – These are examples of activities which could demonstrate that you have achieved the CMarTech criteria.

### D. Demonstrate effective interpersonal skills.

D1. Communicate in English with others at all levels.

This could include an ability to:

- Contribute to, chair and record meetings and discussions
- Prepare letters, documents and reports on complex matters
- Exchange information and provide advice to technical and non-technical colleagues.

Reports, minutes of meetings, letters, programmes, drawings, specifications.

D2. Present and discuss proposals.

This could include an ability to:

- Prepare and deliver presentations on strategic matters
- Lead and sustain debates with audiences
- Feed the results back to improve the proposals.

Presentations, records of discussions and their outcomes.

D3. Demonstrate personal and social skills.

This could include an ability to:

- Know and manage own emotions, strengths and weaknesses
- Be aware of the needs and concerns of others
- Be confident and flexible in dealing with new and changing interpersonal situations  
Identify, agree and lead work towards collective goals
- Create, maintain and enhance productive working relationships, and resolve conflicts.

Records of meetings. Evidence from colleagues of your personal and social skills.

Take responsibility for productive working relationships. Apply diversity and anti-discrimination legislation.

## The Competence and Commitment Standard for Chartered Marine Technologists.

### E. Demonstrate a personal commitment to professional standards, recognising obligations to society, the profession and the environment.

E1. Comply with relevant codes of conduct.

This could include an ability to:

- Comply with the rules of professional conduct of the IMarEST
- Lead work within all relevant legislation and regulatory frameworks, including social and employment legislation.

E2. Manage and apply safe systems of work.

This could include an ability to:

- Identify and take responsibility for own obligations for health, safety and welfare issues
- Ensure that systems satisfy health, safety and welfare requirements
- Develop and implement appropriate hazard identification and risk management systems
- Manage, evaluate and improve these systems.

E3. Undertake activities in a way that contributes to sustainable development.

This could include an ability to:

- Operate and act responsibly, taking account of the need to progress environmental, social and economic outcomes simultaneously
- Use imagination, creativity and innovation to provide products and services which maintain and enhance the quality of the environment and community, and meet financial objectives
- Understand and secure stakeholder involvement in sustainable development.

## Guidance – These are examples of activities which could demonstrate that you have achieved the CMarTech criteria.

Work with a variety of conditions of contract. Demonstrate initiative in and commitment to the affairs of the IMarEST.

Undertake formal H&S training. Work with H&S legislation and best practice, e.g. HASAW 1974, CDM regs, OHSAS 18001:2007 and company safety policies. Carry out safety audits. Identify and minimise hazards. Assess and control risks.

Evaluate the costs and benefits of safe working. Deliver strategic H&S briefings and inductions.

Carry out environmental impact assessments. Carry out environmental risk assessments.

Plan and implement best practice environmental management systems, e.g. ISO 14000. Work within environmental legislation. Adopt sustainable practices.

Achieve “triple bottom line” (i.e. social, economic and environmental) outcomes.

## The Competence and Commitment Standard for Chartered Marine Technologists.

E4. Carry out continuing professional development necessary to maintain and enhance competence in own area of practice.

This could include an ability to:

- Undertake reviews of own development needs
- Prepare action plans to meet personal and organisational objectives
- Carry out planned (and unplanned) CPD activities
- Maintain evidence of competence development
- Evaluate CPD outcomes against the action plans
- Assist others with their own CPD.

## Guidance – These are examples of activities which could demonstrate that you have achieved the CMarTech criteria.

Keep up to date with relevant national and international issues. Maintain CPD plans and records. Involvement with the affairs of the IMarEST. Evidence of your development through on-the-job learning, private study, in- house courses, external courses and conferences.

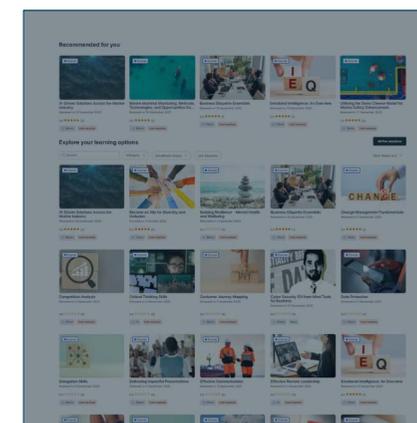
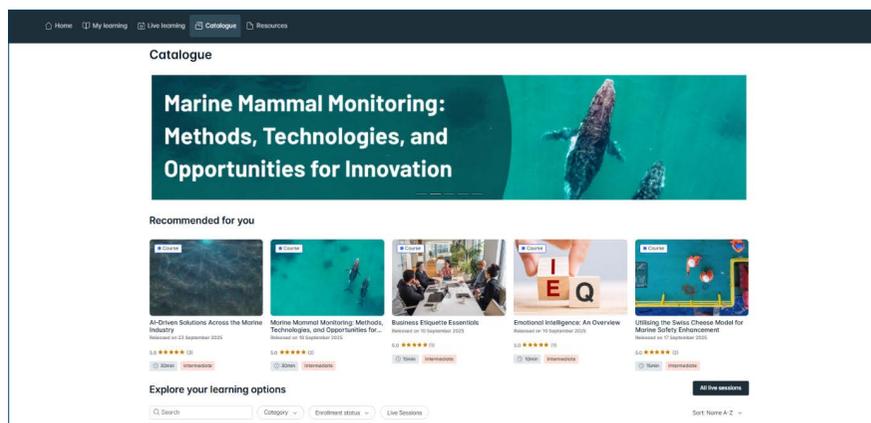
## Continuous Professional Development (CPD)

Professional development is a key part of developing the competence required to achieve the standard for Chartered Marine Technologist registration. Aspiring Chartered Marine Technologists learn to apply their knowledge and understanding and apply professional judgement through professional development. Many larger employers run well-established graduate training and development schemes, some of which are accredited by the IMarEST for the purposes of CMarTech registration.

Accredited professional development schemes, however, are not the only route to achieving the professional development necessary for CMarTech registration. In the absence of an accredited scheme, aspiring Chartered Marine Technologists will need to develop profiles of competence and professional activity in accordance with the competence and commitment statements mentioned earlier. The IMarEST Membership Team will be able to provide the information and guidance necessary, and may be able to put them in touch with a mentor to assist them through the process and help to identify any skills gaps in their development.

Anyone seeking registration as a Chartered Marine Technologist should maintain a detailed record of their development, responsibilities and experience, verified by referees, in order to be best prepared to provide the evidence of professional competence commensurate for CMarTech registration.

We recommend aspiring registrants consult the IMarEST's Professional Development Guidance document found on our website (<https://www.imarest.org/education-and-training/learning.html>) for further information about CPD and its importance.



## Maintaining competence and demonstrating a commitment to CPD

Once CMarTech registration has been achieved, Chartered Marine Technologists have an obligation to maintain professional competence. Guidance on CPD (including a downloadable CPD record) can be found on the IMarEST website (<https://cpd.imarest.org/>).

The image displays three screenshots from the IMarEST CPD Dashboard. The top-left screenshot shows the 'CPD Dashboard' with a table of activities. The top-right screenshot shows the details for the course 'AI-Driven Solutions Across the Marine Industry'. The bottom screenshot shows the 'Certificates and credits' section, including an IMarEST CPD Certificate and a 0.5 Continuous Professional Development credit.

NAME	ACTIVITY TYPE	DATE	HOURS	STATUS	ACTIONS
Tell us what type of learning you would like to use	Self-directed learning/assessment	29/01/2024	0.3	Waiting for feedback	👁️ 🗑️
Cyber Security 101 from Mind Techs for Business	Structured training	10/10/2023	0.5	Complete	👁️ 🗑️
Change Management Fundamentals	Structured training	10/10/2023	0.25	In Progress	👁️ 🗑️
Emotional Intelligence: An Overview	Structured training	10/10/2023	0.2	Complete	👁️ 🗑️
AI-Driven Solutions Across the Marine Industry	Structured training				👁️ 🗑️
Oceans of Knowledge	No activity type assigned				👁️ 🗑️

**AI-Driven Solutions Across the Marine Industry**  
 COMPLETED ON OCT 16, 2024  
 4.8 ⭐⭐⭐⭐⭐ 36 reviews  
 You successfully completed this course. Overall Score: 100%  
 [Refresh] [Re-visit] [Download certificate] [Share certificate]

CONTENT: 5 modules | COURSE LENGTH: 30 minutes | LEVEL: Intermediate

**Certificates and credits**

- CERTIFICATES**: IMarEST CPD Certificate [Share] [Download]
- CREDITS**: 0.5 Continuous Professional Development

**Top reviews**

- Realist**: 5.0 ⭐⭐⭐⭐⭐. A good introduction to the main related topics, something to build on.
- Anonymous**: 5.0 ⭐⭐⭐⭐⭐. It's a great knowledge experience to understand the use of AI driven solutions in the maritime sector.
- Anonymous**: 5.0 ⭐⭐⭐⭐⭐. Course is helpful in understanding AI applications and implications for marine vessel engineering into the industry.

## The IMarEST's rules of Professional Conduct

All Corporate Members of the Institute are required to make a personal commitment to live by the appropriate codes of professional conduct, recognising their obligations to society, the marine professions and the environment ([www.imarest.org/membership/conduct](http://www.imarest.org/membership/conduct)).



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