Membership

Competency Frameworks

cbuilde.com

v3 May 2022
Introduction – Raising the Standard

Chartered Association of Building Engineers (CABE) is committed to supporting building professionals throughout their career, helping to ensure the services they deliver as Building Engineers help to create a better, safer and more sustainable built environment. Right from our formation back in 1925, our core aims have been to share knowledge, raise standards and develop professionals. Given the increasing expectations of construction professionals in the 21st century to demonstrate ongoing competence, CABE has undertaken a review of our membership grades and related competency frameworks to ensure they meet current sector expectations and are fit for the future, enabling CABE members to be competent professionals that clients and the public can trust.

This guidance document sets out the revised requirements, new designations and the relevant competency framework that applies to each grade of membership across the Association.

CABE is now a Professional Engineering Institution with the Engineering Council; therefore our revised membership grades and competency frameworks reflect the recognition that this will bring and are specifically designed to integrate Engineering Council UKSPEC requirements and align them to our membership standards. Members will have the option to register for the additional EngTech, IEng or CEng with the Engineering Council. There is no requirement for any member to register and registration will be through a separate application and assessment process. Full guidance regarding the criteria for Engineering Council registration and the application process will be published in due course once registration is available.

Whether you are a student studying a course within the built environment, or a working professional with many years’ experience in a Building Engineering role, the Chartered Association of Building Engineers (CABE) has a grade of membership that is right for you.

This guide to membership includes:

- Section 1: A Guide to Membership of CABE
- Section 2: Qualification Levels
- Section 3: CABE Membership Requirements
- Section 4: Competency Frameworks
Section One

A Guide to Membership

CABE membership grades are designed to recognise your qualifications, technical competence and experience working in the industry. Membership affords you the use of a designation (except student members) and for higher levels of membership, the title of Chartered Building Engineer as a mark of seniority and professional standing where your knowledge and experience has been recognised.

Membership of CABE benefits you throughout your career and provides the essential support for recognition of your professional development. This document outlines the different routes to membership for each grade and the competencies that you must demonstrate in order to be a member.

In order to apply for Engineering Council Registration, you must first be a member of CABE. Registration for Engineering Council is an additional option.

Eligibility

CABE assesses eligibility for membership of all applications through the review of the required formal qualifications and assessment of relevant experience to be considered competent against each grade of membership.

Competence is defined as the mix of knowledge, skills and experience which determines the level of professional standards that are required – it is important that you read the Competency Framework relevant to the grade you wish to attain and think carefully about how you meet the criteria.

Requirements are set out as minimum levels of attainment referencing formal qualifications and experience and you should also use these as a guide to what level of membership will best suit you. For higher grades of membership, applicants will also need to submit additional information and where appropriate undertake a Professional Review Interview by a panel of CABE members in order to demonstrate their competence.

A member can apply to upgrade to a higher level of membership upon achieving the necessary academic and/or professional experience as stated under each membership grade, detailed in Section 3.

Equivalence

You may have qualifications and experience that you believe would be suitable although they may not appear to match exactly to the criteria set out in this document, to assess this accurately please get in touch at membership@cbuilde.com we are happy to discuss how you can demonstrate equivalence to the required grade, or otherwise advise on how to reach the necessary standard for membership.

If you have any specific queries about your level of qualification and experience please contact membership@cbuilde.com
Section Two
Qualification levels

In order to determine which academic or vocational qualification qualifies for each grade of membership CABE uses the Regulated Qualifications Framework (RQF) as defined by OFQUAL (in England) which became effective on 1 October 2015 and the RQF levels indicate the required knowledge and skills associated with each qualification.

We understand that other frameworks exist in different countries and where such qualifications are held by a prospective member, CABE will make a judgment on the equivalence of that qualification to the RQF in determining the most appropriate grade of membership for the applicant. If you are unsure as to the equivalent level of a qualification and the appropriate grade of membership please contact the team for advice, as a guide the following table provides examples as to the RQF.

Example RQF level of common qualifications types:

<table>
<thead>
<tr>
<th>Qualification Level</th>
<th>Typical Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Levels 1, 2 and 3</td>
<td>GCSE's, A-Level, AS-Level, High School Diploma, Vocational Qualification</td>
</tr>
<tr>
<td>Level 4</td>
<td>Vocational Qualifications level 4, Certificate of Higher Education, HNC's</td>
</tr>
<tr>
<td>Level 5</td>
<td>Vocational Qualification level 5, Foundation Degree, Diploma of Higher Education, HND's</td>
</tr>
<tr>
<td>Level 6</td>
<td>Bachelor's Degree (with or without honours) or equivalent vocational qualification</td>
</tr>
<tr>
<td>Level 7</td>
<td>Master's Degree, Postgraduate Certificate and Diploma's</td>
</tr>
<tr>
<td>Level 8</td>
<td>Doctor of Philosophy (DPhil or PhD)</td>
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</tbody>
</table>
Section Three
CABE Membership Requirements

Student Member

Student membership of CABE is free for all students enrolled on a relevant Built Environment/Building Engineering course for the duration of your studies. You can apply online at www.cbuiide.com

Technician Member – Tech CABE

Technician membership (Tech CABE) is an entry level membership for those who have gained a Level 3 qualification in the Built Environment and are working in a relevant role or can demonstrate equivalent professional experience to a Level 3 qualification and are working in a relevant role in the industry. Being a Tech CABE is a clear sign of professional commitment to working towards the highest level of competency at the start of your career.

To achieve Tech CABE you must show that you meet the competencies laid out in the Building Engineer Technician Competency Framework (Page 11). Please read the framework carefully to ensure this is the correct grade of membership for you.

Routes to Eligibility

- **Equivalent membership**
  Apply using your equivalent membership with a recognised organisation, your CV and verification of qualifications.

- **Academic Route**
  An appropriate Level 3 qualification in the Built Environment and at least one year working in a relevant professional role. Apply with your CV and verification of qualifications.

- **Experience Route**
  Two years’ experience working in a relevant professional role is required. Apply with your CV.

Tech CABE

<table>
<thead>
<tr>
<th>CABE Post Nominals</th>
<th>Routes to Eligibility</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Register Online</td>
</tr>
<tr>
<td>Tech CABE</td>
<td>✓</td>
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<tr>
<td></td>
<td>Equivalent Membership</td>
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<tr>
<td></td>
<td>Academic Route</td>
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<td>Experience Route</td>
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</table>
Associate Member – ACABE

Associate membership of CABE (ACABE) is a developmental grade on the pathway to becoming a fully qualified Building Engineer and demonstrates a member’s level of expertise and professional competence. All applicants for ACABE membership must have a minimum of a Level 4 qualification as well as at least two years’ relevant experience within the industry, and/or can show equivalent professional experience.

To achieve ACABE you must show that you meet the competencies laid out in the Building Engineer Technician Competency Framework (Page 11). Please read the framework carefully to ensure this is the correct grade of membership for you.

Route to Eligibility

- **Equivalent membership**
  Apply using your equivalent membership with a recognised organisation, your CV and verification of qualifications.

- **Academic Route**
  An Appropriate Level 4 qualification in the Built Environment and at least two years’ working in a relevant professional role. Apply with your CV and verification of qualifications.

- **Experience Route**
  Three years’ experience working in a relevant professional role is required. Apply with your CV.

### ACABE

<table>
<thead>
<tr>
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<th>Verification of Qualifications</th>
<th>CPD Record</th>
<th>Evidence of Equivalent Membership</th>
<th>Technical Report</th>
<th>Professional Interview</th>
<th>Supporters’ Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACABE</td>
<td>Equivalent Membership</td>
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<td>Academic Route</td>
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<td></td>
<td>Experience Route</td>
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</table>
Graduate Member – Grad CABE

Graduate membership (Grad CABE) is open to those who have achieved a bachelor’s degree Level 6 qualification (or above), and who are on the development pathway to becoming a fully qualified Building Engineer.

Graduate Membership focuses on converting the theoretical knowledge gained as a student into practical experience.

To gain Grad CABE you must demonstrate that you understand the competencies laid out in the Building Engineer Technician Competency Framework (Page 11). Please read the framework carefully to ensure this is the correct grade of membership for you.

Route to Eligibility

- **Academic Route**
  
  An appropriate Level 6 qualification within the Built Environment (e.g. Bachelor’s Degree with or without Honours) or equivalent vocational qualification within the Built Environment. Apply with your CV and verification of qualifications.

Grad CABE

<table>
<thead>
<tr>
<th>CABE Post Nominals</th>
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<th>Professional Interview</th>
<th>Supporters' Details</th>
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</thead>
<tbody>
<tr>
<td>Grad CABE</td>
<td>Academic Route</td>
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Chartered Member – MCABE

Chartered Member (MCABE) recognises an individual’s professional competence as a fully qualified Building Engineer, which is demonstrated through a mix of academic qualifications and practical experience. MCABE shows a clear commitment to high ethical standards, to cross sector collaboration and to continuous professional development.

To achieve Chartered Member status, you must demonstrate that you meet the competencies laid out in the Building Engineer Competency Framework (Page 14) which requires that you prove robust technical competency and professional judgment. Please read the framework carefully to ensure this is the correct grade of membership for you.

Routes to Eligibility

- **Equivalent Membership**
  Apply using your equivalent membership with a **recognised organisation**, your CV, 2 years’ CPD record, details of two professionals that support your application and verification of qualifications.

- **Academic Route**
  An appropriate Level 6 qualification within the Built Environment (e.g. Bachelor’s Degree with or without Honours) or equivalent vocational qualification within the Built Environment, plus two years’ experience working in a relevant professional role.

  **Step 1:** Apply online with your CV, 2 years’ CPD record, and verification of qualifications.

  **Step 2:** Completion of the Chartered Member Application Form including details of two professionals that support your application. Completion of a Technical Report and Personal Development Plan, followed by a Professional Interview.

  Review [Academic Route Guidelines](#).

- **Experience Route**
  Five years’ experience working in a relevant professional role is required.

  **Step 1:** Apply online with your CV, 2 years’ CPD record, and verification of qualifications.

  **Step 2:** Completion of the Chartered Member Application Form including details of two professionals that support your application. Completion of a Technical Report and Personal Development Plan, followed by a Professional Interview.

  Review [Experience Route Guidelines](#).

**MCABE**

<table>
<thead>
<tr>
<th>CABE Post Nominals</th>
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<tbody>
<tr>
<td><strong>MCABE</strong></td>
<td>Equivalent Membership</td>
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<tr>
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<td>Academic Route</td>
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<tr>
<td></td>
<td>Experience Route</td>
</tr>
<tr>
<td>Register Online</td>
<td>✓</td>
</tr>
<tr>
<td>Curriculum Vitae</td>
<td>✓</td>
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<tr>
<td>Verification of Qualifications</td>
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<td>CPD Record</td>
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<tr>
<td>Evidence of Equivalent Membership</td>
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<td>Technical Report</td>
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<td>Professional Interview</td>
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<td>Supporters’ Details</td>
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8 Membership Competency Frameworks v3 May 22
Chartered Building Engineer –
MCABE Chartered Building Engineer

Chartered Building Engineer (MCABE Chartered Building Engineer) recognises an individual’s professional competence as a fully qualified Chartered Building Engineer which is demonstrated through a mix of academic qualifications and practical experience.

Chartered Building Engineers have a clear commitment to high ethical standards, professionalism, and technical competence recognised by the award of the additional title of Chartered Building Engineer which is a regulated title under the Association’s Royal Charter.

To achieve Chartered Building Engineer, you must demonstrate that you meet the competencies laid out in the Chartered Building Engineer Competency Framework (Page 18) which requires you to show extensive technical and managerial competency. Please read the framework carefully to ensure this is the correct grade of membership for you.

Routes to Eligibility

- **Equivalent membership**
  Apply online using evidence of equivalent membership with a [recognised organisation](#), your CV, 2 years’ CPD record, details of two professionals that support your application and verification of qualifications.

- **Academic Route**
  An appropriate Level 7 qualification within the Built Environment (e.g. Master’s Degree, Postgraduate Certificate, and Diploma) or equivalent vocational qualification within the Built Environment, plus three years’ experience working in a relevant professional role with at least two years’ in a position of responsibility.
  
  **Step 1:** Apply online with your CV, 2 years’ CPD record, and verification of qualifications.
  
  **Step 2:** Completion of the Chartered Building Engineer Application Form including details of two professionals that support your application. Completion of a Technical Report and Personal Development Plan followed by a Professional Interview.

- **Experience Route**
  Six years’ experience working in a relevant professional role with at least 2 years’ in a senior position is required.
  
  **Step 1:** Apply online with your CV, 2 years’ CPD record, and verification of qualifications.
  
  **Step 2:** Completion of the Chartered Building Engineer Application Form including details of two professionals that support your application. Completion of a Technical Report and Personal Development Plan followed by a Professional Interview.

Review [Experience Route Guidelines](#).

MCABE Chartered Building Engineer

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<tr>
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<tr>
<td>MCABE Chartered Building Engineer</td>
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<tbody>
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Fellow Chartered Building Engineer – FCABE Chartered Building Engineer

Fellow Chartered Building Engineer (FCABE) is the highest level of CABE membership and reflects the knowledge, expertise and experience of the industry’s most experienced professionals and a commitment to furthering the profession of building engineering.

To gain Chartered Fellow status applicants must be able to demonstrate their senior professional expertise, or their level of seniority in the research and/or teaching of the arts and sciences within the built environment.

To achieve Fellow Chartered Building Engineer, you must demonstrate that you meet the competencies laid out in the Chartered Building Engineer Competency Framework (Page 18) which requires you to show extensive technical and managerial competency. Please read the framework carefully to ensure this is the correct grade of membership for you.

Routes to Eligibility

- **Equivalent membership**
  
  Apply online using evidence your equivalent membership with a **recognised organisation**, your CV, 3 years’ CPD record, details of two professionals that support your application and verification of qualifications.

- **Experience Route**
  
  To apply via the experience route, you must first apply for, and be accepted as, a Chartered Building Engineer (C.Build E MCABE). You must also meet the required Fellow criteria which can be found at [cbuilde.com/page/fellow_chartered_building_engineer](http://cbuilde.com/page/fellow_chartered_building_engineer).

<table>
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</thead>
<tbody>
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# Building Engineer Technician Competency Framework

The following scope sets out the knowledge or evidence required to demonstrate competency relevant to your work.

<table>
<thead>
<tr>
<th>General Competency</th>
<th>Evidential Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A – Knowledge and understanding</strong></td>
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</tbody>
</table>
| A Use building engineering knowledge and understanding to apply technical and practical skills relevant to your work | Evidence could include:  
  - An example of work you did that went well, the choices you made and the outcome  
  - Or something in your work that you were involved in which didn't quite work and explain why  
  - Or a technique, procedure or method you improved upon and explain why. |
| A1 Review and select appropriate techniques, procedures and methods to undertake building engineering tasks. | Evidence could include:  
  - A self-assessment of the scope of work you undertake, and the knowledge required to be competent to do so  
  - A mapping of relevant technical standards, codes or regulations etc  
  - Practical examples of how you have applied these standards  
  - Drawing from your direct experience, this might be an explanation of how a piece of equipment, construction technology, system or building engineering technique works.  
  - Integration of the principles of inclusive design. |
| A2 Use appropriate scientific, technical or building engineering principles including demonstration of suitable knowledge and ability to apply technical standards, codes and regulations relevant to your work as a building engineer. | Evidence should include:  
  - Awareness of relevant frameworks and legislation  
  - Examples of applying those frameworks in practice. |
| **B – Design and development of processes, systems, services and products** | |
| B Contribute to the design, assessment, development, manufacture, construction, commissioning, operation or maintenance of building products, equipment, processes, systems or services relevant to your work | Evidence could include examples of how you have used measurement, monitoring and assessment to:  
  - Identify the source of a problem  
  - Or to identify an opportunity  
  - Or to propose a solution.  
  - Integration of the principles of inclusive design. |
| B1 Identify problems and apply appropriate building engineering methods to identify problems and develop satisfactory solutions; and demonstrate the ability to work within the legal statutory and regulatory frameworks relevant to your work as a Building Engineer. | Evidence could illustrate how you make decisions about:  
  - What information, material, component, people or plant to use  
  - How to introduce a new method of working  
  - What precautions you took to address safety concerns  
  - Or describe how you have contributed to best practice methods of continuous improvement, e.g. ISO 9000. |
| B2 Identify, organise and use resources effectively to complete tasks, with consideration for cost, quality, safety, security and environmental impact. | Evidence could show:  
  - How you identified and agreed what had to be done and to what standards on a typical project. |
| **C – Responsibility, management and leadership** | |
| C Accept and exercise personal responsibility | Your evidence could include:  
  - Minutes of meetings  
  - Site notes and instructions  
  - Variation orders  
  - Programmes of work  
  - Specifications, drawings and reports  
  - Appraisals.  
  - Activity not associated with your job can contribute evidence. |
<p>| C1 Work reliably and effectively without close supervision, to the appropriate codes of practice. | |
| C2 Accept responsibility for work of self or others | |</p>
<table>
<thead>
<tr>
<th>General Competency</th>
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</thead>
</table>
| C3 Accept, allocate or supervise technical and other tasks. | Evidence could include:  
  - Examples of complex tasks, how they were commissioned and the way in which you allocated responsibility to ensure the task was completed successfully  
  - Examples of where you have delegated or instructed work to be undertaken by others. |
| D – Communication and interpersonal skills | |
| D Use effective communication and interpersonal skills. | |
| D1 Use oral, written and electronic methods for the communication in of technical and other information. | Your evidence could include:  
  - Letters  
  - Reports  
  - Drawings  
  - E-mails  
  - Minutes, including of progress meetings  
  - Appraisals  
  - Work instructions  
  - Other task planning and organising documents. |
| D2 Work effectively with colleagues, clients, suppliers or the public, and be aware of the needs and concerns of others, especially where related to inclusion, diversity and equality. | Evidence could include:  
  - How this has occurred, and your role at the time  
  - The ability to clearly describe your role as part of a team  
  - Evidence of a situation where you put your awareness into practice  
  - Public consultation or direct engagement with a diverse range of people to improve inclusion, diversity and equality in the built environment. |
| E – Professional commitment | |
| E Make a personal commitment to the CABE code of professional conduct, recognising obligations to society, the profession and the environment. | |
| E1 Comply with the CABE Code of Conduct and any other code of conduct to which you are subject. | Evidence could include how you:  
  - Participate in the activities of your professional organisation  
  - Record and evaluate your own performance. |
| E2 Manage and apply safe systems of work. | Evidence could include:  
  - Applying current safety requirements, such as risk assessment and other examples of good practice you adopt in your work  
  - Proof that you have received a formal safety instruction relating to your workplace (such as a CSCS safety test in the UK), or an update on statutory regulations. In the UK an example would be COSHH requirements  
  - Working in accordance with CDM regulations. |
| E3 Undertake building engineering work 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  
  - Apply the principles of inclusive design to ensure the built environment meets the needs of a diverse range of users. | Evidence could include:  
  - Examples of methodical assessment of environmental risk in specific projects  
  - Actions taken to minimise risk to society or the environment  
  - Contribute to the development of a more inclusive built environment. |
<table>
<thead>
<tr>
<th>General Competency</th>
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| **E4** Carry out CPD as necessary to maintain and enhance competence in your own area of building engineering practice including:  
- Undertaking review of your own development needs  
- Plan how to meet personal and organisational objectives  
- Carry out planned (and unplanned) CPD activities  
- Maintain evidence of competence development  
- Evaluate CPD outcomes against any CPD plans made  
- Assist others with their own CPD | Evidence could include how you:  
- Actively seek to keep yourself up to date, by studying new standards or techniques  
- Make use of magazines or lectures organised by relevant professional institutions  
- Take other opportunities to network in order to keep abreast of change. |
| **E5** Exercise responsibilities in an ethical manner. | Evidence could include:  
- Practical application of or upholding ethical principles as defined in the CABE statement of ethical principles, or by your organisation or company  
- Being able to demonstrate and discuss your views or your position on typical ethical challenges. |
CABE - Building Engineer Competency Framework

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<td>A – Knowledge and understanding</td>
<td></td>
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<tr>
<td><strong>A</strong> Use a combination of general and specialist building engineering knowledge and understanding to apply existing and emerging technology relevant to your work.</td>
<td>Evidence could include how you engage in formal learning such as:</td>
</tr>
<tr>
<td>A1 Maintain and extend a sound theoretical approach to the application of technology in building engineering practice and demonstrate detailed knowledge of and the ability to apply technical standards, codes, regulatory and other requirements relevant to your work. This could include the ability to:</td>
<td>• Learning new building engineering theories and techniques in the workplace, at seminars, etc.</td>
</tr>
<tr>
<td>• Identify the limits of your own personal knowledge and skills</td>
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</tr>
<tr>
<td>• Strive to extend your own technological capability</td>
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<tr>
<td>• Broaden and deepen your own knowledge base through new applications and techniques.</td>
<td>• Broadening your knowledge of building engineering codes, standards and specifications</td>
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<tr>
<td>• Assisting in the development of industry standards and codes of practice</td>
<td>Evidence should also demonstrate:</td>
</tr>
<tr>
<td>Evidence could include:</td>
<td>• Understanding of the scope of work you undertake, and the knowledge required to be competent to do so</td>
</tr>
<tr>
<td>• Learning new building engineering theories and techniques in the workplace, at seminars, etc.</td>
<td>• Knowledge of relevant technical standards, codes or regulations etc</td>
</tr>
<tr>
<td>• Broadening your knowledge of building engineering codes, standards and specifications</td>
<td>• Practical examples of how you have applied these standards</td>
</tr>
<tr>
<td>• Assisting in the development of industry standards and codes of practice</td>
<td>• Knowledge and understanding of inclusive design in the built environment.</td>
</tr>
<tr>
<td>B – Design and development of processes, systems, services and products</td>
<td>Evidence could include how you manage or contribute to market research, or product and process research or development such as:</td>
</tr>
<tr>
<td><strong>B</strong> Apply appropriate theoretical and practical methods to manufacture, assess, design, develop, construct, commission, operate, maintain, decommission and recycle using building engineering process, systems, products and services relevant to your work.</td>
<td>• Involvement in cross disciplinary working</td>
</tr>
<tr>
<td>B1 Identify, review and select techniques, procedures and methods to undertake building engineering tasks and demonstrate suitable awareness of and the ability to work within the legal, statutory and regulatory frameworks specifically relevant to your building engineering work and how this relates to the work of others. This could include an ability to:</td>
<td>• Conducting statistically sound appraisal of data or evidence</td>
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<tr>
<td>• Establish user or project requirements and identify suitable building engineering techniques or process to meet their needs</td>
<td>• Using evidence from best practice to improve evidence</td>
</tr>
<tr>
<td>• Select appropriate review, test or assessment methodologies</td>
<td>• Conducting research into products, materials or technology</td>
</tr>
<tr>
<td>• Exploit and implement current technology</td>
<td>Evidence should also demonstrate:</td>
</tr>
<tr>
<td>• Review the potential for enhancing building engineering practices, products, processes, systems and services using evidence from best practice or personal experience</td>
<td>• Understanding of relevant frameworks and legislation</td>
</tr>
<tr>
<td>• Establish action plans to implement actions on the basis of review outcomes.</td>
<td>• Examples of applying those frameworks in practice</td>
</tr>
<tr>
<td>General Competency</td>
<td>Evidential Scope</td>
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</table>
| **B2** Contribute to the assessment or design of building engineering solutions. This could include the ability to:  
  • Contribute to the identification and specification of appropriate assessment and design requirements for building engineering products, processes, systems and services  
  • Identify operational risks and evaluate possible building engineering solutions, taking account of factors such as cost, quality, safety, reliability, appearance, fitness for purpose, security, intellectual property (IP) constraints and opportunities, and environmental impact  
  • Collect and analyse results. | Evidence could include how you:  
  • Utilise theoretical and applied research including market research  
  • Manage or contribute to value engineering and whole life costing  
  • Work in design teams.  
  • Draft specifications or assessment methodologies  
  • Find and evaluate information from a variety of sources, including online  
  • Develop and test options  
  • Identify resources and costs of options  
  • Produce detailed designs or assessments  
  • Be aware of IP constraints and opportunities. |
| **B3** Implement or assess building engineering solutions and contribute to their evaluation. This could include the ability to:  
  • Secure the resources required for implementation  
  • Implement or assess building engineering solutions, taking account of critical constraints, including due concern for safety and sustainability  
  • Identify problems during implementation and take corrective action  
  • Contribute to recommendations for improvement and actively learn from feedback on results. | Evidence could include how you:  
  • Operate and maintain processes, systems etc  
  • Contribute to reports on the evaluation or assessment of the effectiveness of designs, including factors such as risk, safety and life cycle considerations  
  • Contribute to product, process or system improvement.  
  • Interpret, assess or analyse performance.  
  • Contribute to determining critical success factors. |
| **C – Responsibility, management and leadership** | |
| **C** Provide technical and commercial management. | |
| **C1** Plan for effective project implementation or project management. This could include the ability to:  
  • Identify factors affecting project implementation or management  
  • Carry out holistic and systematic risk identification, assessment and management  
  • Prepare and agree implementation plans and method statements  
  • Secure the necessary resources and confirm roles in project teams  
  • Manage or work within the necessary contractual arrangements with other stakeholders (client, subcontractors, suppliers, etc). | Evidence could include how you:  
  • Manage or contribute to project planning activities  
  • Produce and implement procurement or project plans  
  • Contribute to project risk assessments  
  • Collaborate with key stakeholders  
  • Plan programmes and delivery of tasks  
  • Identify resources and costs  
  • Prepare and agree or work effectively in accordance with contracts or work orders. |
| **C2** Manage tasks, people and resources to plan and budget. This could include the ability to:  
  • Operate or work within appropriate management systems  
  • Work to the agreed quality standards, programme and budget, within legal and statutory requirements  
  • Manage or act effectively within teams, co-ordinating project activities  
  • Identify variations from quality standards, programme and budgets, and take corrective action  
  • Evaluate performance and recommend improvements. | Evidence could include how you:  
  • Manage or contribute to project operations  
  • Manage the balance between quality, cost and time  
  • Manage contingency processes  
  • Contribute to the management of fees, project funding, payments and recovery  
  • Satisfy legal and statutory obligations  
  • Manage tasks within identified financial, commercial and regulatory constraints. |
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</table>
| **C3** Manage or work effectively within teams and develop staff to meet changing technical and managerial needs. | Evidence could include how you:  
- Carry out or contribute to staff or self-appraisal process  
- Plan or contribute to the training and development of staff or improvement of your own skills  
- Gather evidence from colleagues or other organisations you work with to understand how well you manage changing technical requirements  
- Carry out or contribute to disciplinary procedures. |
| Where relevant this could include the ability to:  
- Agree objectives and work plans with teams and individuals  
- Identify team and individual needs, and plan for their development  
- Reinforce team commitment to professional standards  
- Manage and support team and individual development  
- Assess team and individual performance, and provide feedback  
- Recognise and promote consideration and understanding of inclusion and diversity. |  
Evidence could include how you:  
- Carry out or contribute to staff or self-appraisal process  
- Plan or contribute to the training and development of staff or improvement of your own skills  
- Gather evidence from colleagues or other organisations you work with to understand how well you manage changing technical requirements  
- Carry out or contribute to disciplinary procedures. |
| **C4** Manage or support continuous quality improvement. | Evidence could include how you:  
- Promote or plan for quality in your building engineering work  
- Manage, contribute or work within best practice methods of continuous improvement, e.g. ISO 9000, EFQM, balanced scorecard  
- Carry out, or contribute to, quality audits or other approaches to measure your performance or that of your organisation  
- Monitor, maintain and improve delivery of your building engineering services  
- Identify, implement and evaluate changes to meet quality objectives. |
| This could include the ability to:  
- Ensure the application of quality management principles by yourself, team members or colleagues  
- Manage operations and building engineering tasks to maintain or meet quality standards  
- Evaluate projects and make recommendations for improvement. |  
Evidence could include how you:  
- Promote or plan for quality in your building engineering work  
- Manage, contribute or work within best practice methods of continuous improvement, e.g. ISO 9000, EFQM, balanced scorecard  
- Carry out, or contribute to, quality audits or other approaches to measure your performance or that of your organisation  
- Monitor, maintain and improve delivery of your building engineering services  
- Identify, implement and evaluate changes to meet quality objectives. |
| **D – Communication and interpersonal skills** |  
**D** Demonstrate effective interpersonal skills. |
| **D1** Communicate in English with others at all levels. | Evidence could include:  
- Reports, letters, e-mails, drawings, specifications and working papers (e.g. meeting minutes, planning documents, correspondence) in a variety of formats.  
- Engaging or interacting with professional networks. |
| This could include an ability to:  
- Contribute to, chair and record meetings and discussions  
- Prepare communications, documents and reports on technical matters  
- Exchange information and provide advice to technical and non-technical colleagues. |  
Evidence could include:  
- Reports, letters, e-mails, drawings, specifications and working papers (e.g. meeting minutes, planning documents, correspondence) in a variety of formats.  
- Engaging or interacting with professional networks. |
| **D2** Present and discuss proposals. | Evidence could include:  
- Presentations, records of discussions and their outcomes. |
| This could include an ability to:  
- Prepare and deliver appropriate presentations  
- Manage debates with audiences or discuss proposals or outcomes from assessments with clients or contractors  
- Feed results back to improve proposals or outcomes  
- Contribute to the awareness of risk. |  
Evidence could include:  
- Presentations, records of discussions and their outcomes. |
| **D3** Demonstrate personal and social skills. | Evidence might include:  
- Records of meetings  
- Evidence from colleagues of your personal and social skills  
- Contribute to productive working relationships  
- Apply diversity and anti-discrimination legislation  
- Public consultation or direct engagement with a diverse range of people to improve inclusion, diversity and equality in the built environment. |
| This could include an ability to:  
- Know and manage own emotions, strengths and weaknesses  
- Be aware of the needs and concerns of others, especially where related to inclusion, diversity and equality  
- Be confident and flexible in dealing with new and changing interpersonal situations. |
## E – Professional commitment

<table>
<thead>
<tr>
<th>General Competency</th>
<th>Evidential Scope</th>
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</table>
| **E** Demonstrate a personal commitment to professional standards, recognising obligations to society, the profession and the environment. | **E1** Comply with the CABE Code of Professional Conduct and any other relevant code of conduct.  
This should include the ability to:  
• Comply with the CABE Code of Professional Conduct  
• Manage work within all relevant legislation and regulatory frameworks, including social and employment legislation.  
Evidence should include how you:  
• Contribute to the affairs of Chartered Association of Building Engineers  
• Evaluate your own performance  
• Work with a variety of conditions of contract. |
| **E2** Manage and apply safe systems of work.  
This could include the ability to:  
• Identify and take responsibility for own obligations for health, safety and welfare issues  
• Manage systems that satisfy health, safety and welfare requirements relevant to your work  
• Develop and implement appropriate hazard identification and risk management systems and culture  
• Manage, evaluate and improve these systems  
• Apply a sound knowledge of health and safety legislation relevant to your work.  
Evidence could include how you:  
• Undertake formal health and safety training  
• Work with health and safety legislation and best practice. In the UK, examples include HASAW 1974, CDM regulations, OHSAS 18001:2007 and company safety policies  
• Carry out safety audits  
• Identify and minimise hazards  
• Assess and control risks  
• Deliver health and safety briefings and inductions  
• Ensure compliance with CDM regulations. |
| **E3** Undertake building engineering activities in a way that contributes to sustainable development.  
Where relevant this could include the 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  
• Apply the principles of inclusive design to ensure the built environment meets the needs of a diverse range of users  
• Understand and encourage stakeholder involvement in sustainable development  
• Use resources efficiently and effectively.  
Evidence could include how you:  
• Carry out/contribute to environmental risk assessments.  
• Manage best practice environmental management systems, e.g. ISO 14000  
• Manage best practice risk management systems e.g. ISO 31000  
• Work within, or ensure others comply with, environmental legislation.  
• Adopt sustainable practices in your building engineering work or practice.  
• Contribute to positive social, economic and environmental outcomes.  
• Contribute to the delivery of a more inclusive built environment. |
| **E4** Carry out and record CPD necessary to maintain and enhance competence in own area of practice including:  
• Undertake reviews of your own development needs  
• Plan how to meet personal and organisational objectives  
• Carry out planned (and unplanned) CPD activities  
• Maintain evidence of competence development  
• Evaluate CPD outcomes against any plans made  
• Assist others with their own CPD.  
Evidence could include how you:  
• Keep up-to-date with national and international building control issues  
• Maintain CPD plans and records  
• Involve yourself with the affairs of Chartered Association of Building Engineers  
• Evidence your development through on-the-job learning, private study, in-house courses, external courses and conferences. |
| **E5** Exercise your responsibilities in an ethical manner.  
Evidence could include examples of how you:  
• Apply the ethical principles as set out in the CABE Guide to Ethical Professionalism in your building engineering work  
• Apply ethical standards or codes promoted by your company or employers. |
Chartered Building Engineer Competency Framework

The following scope sets out the knowledge or evidence required to demonstrate competence relevant to your work.

<table>
<thead>
<tr>
<th>General Competency</th>
<th>Evidential Scope</th>
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<tbody>
<tr>
<td><strong>A – Knowledge and understanding</strong></td>
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<tr>
<td><strong>A</strong></td>
<td>Use a combination of general and specialist building engineering knowledge and understanding to apply existing and emerging technology relevant to your work.</td>
</tr>
</tbody>
</table>
| **A1** | Maintain and extend a sound theoretical approach to enable the introduction and exploitation of new and advancing technology in building engineering practice and demonstrate comprehensive knowledge of and the ability to apply technical standards, codes, regulatory and other requirements relevant to your work. This could include the ability to:  
  - Identify the limits of your own personal knowledge and skills  
  - Strive to extend your own technological capability  
  - Broaden and deepen your own knowledge base through research and experimentation. |
| Evidence could include: |  
  - Engaging in formal post-graduate academic study  
  - Learning or developing new building engineering theories and techniques in the workplace  
  - Broadening your knowledge of building codes, standards and specifications  
  - Leading in the development of industry standards or codes of practice. |
| Evidence should also demonstrate: |  
  - Detailed understanding of the scope of work you undertake, and the knowledge required to be competent to do so  
  - Detailed knowledge of relevant technical standards, codes or regulations etc  
  - Practical examples of how you have applied these standards  
  - Awareness and understanding of the knowledge required of those you manage  
  - Knowledge and understanding of inclusive design in the built environment. |
| **A2** | Engage in the creative and innovative development or deployment of building engineering technology and the continuous improvement of building engineering systems. This could include an ability to:  
  - Assess market needs and contribute to marketing strategies  
  - Identify constraints and exploit opportunities for the development and transfer of technology within your own chosen field  
  - Promote or support new applications for building technology when appropriate  
  - Develop and evaluate approaches to ensure continuous improvement of building engineering systems. |
| Evidence could include how you: |  
  - Lead/manage market research, or product and process research and development  
  - Undertake cross-disciplinary working involving complex projects.  
  - Conduct statistically sound appraisal of data  
  - Use evidence from best practice relevant to your work to improve effectiveness. |

| **B – Design and development of processes, systems, services and products** | |
| **B** | Apply appropriate theoretical and practical methods to manufacture, assess, design, develop, construct, commission, operate, maintain, decommission and recycle using building engineering process, systems, products and services relevant to your work. |
| **B1** | Identify potential building engineering projects and opportunities and demonstrate the ability to work within the legal, statutory and regulatory frameworks specifically relevant to your building engineering work, and how this relates to the work of others. This could include the ability to:  
  - Identify, establish and help develop solutions to meet user or project requirements  
  - Consider and implement new and emerging technologies in building engineering practice  
  - Enhance or improve building engineering practices, products, processes, systems and services  
  - Use own knowledge of the employer’s position to assess the viability of opportunities. |
| Evidence could include: |  
  - Involvement in the marketing of and tendering for new building engineering products, processes and systems  
  - Involvement in the specification, assessment or procurement of new building engineering products, processes and systems  
  - Setting targets, and draft programmes and action plans.  
  - Scheduling activities.  
  - Detailed understanding of relevant frameworks and legislation  
  - Examples of applying those frameworks in practice. |
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<tr>
<th>General Competency</th>
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<tbody>
<tr>
<td><strong>B2</strong> Conduct appropriate research and undertake design, development or assessment of building engineering solutions. This could include the ability to:</td>
<td>Evidence could include how you:</td>
</tr>
<tr>
<td>• Identify and agree appropriate research or evaluation methodologies</td>
<td>• Support, commission or utilise formal theoretical or market research</td>
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<tr>
<td>• Allocate and manage resources</td>
<td>• Evaluate and use numerical and analytical tools.</td>
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<tr>
<td>• Develop and apply necessary tests or assessments</td>
<td>• Carry out applied research on the job</td>
</tr>
<tr>
<td>• Collect, analyse and evaluate relevant data</td>
<td>• Lead/manage or contribute to value engineering or whole life costing</td>
</tr>
<tr>
<td>• Undertake building engineering design or assessment using research findings</td>
<td>• Lead design teams</td>
</tr>
<tr>
<td>• Prepare, present and agree building engineering recommendations, with appropriate analysis of risk, and taking account of factors such as cost, quality, safety, reliability, appearance, fitness for purpose, security, intellectual property (IP) constraints and opportunities, and environmental impact.</td>
<td>• Draft specifications or assessment methods for building engineering work or process</td>
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<td></td>
<td>• Develop and test options</td>
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<td></td>
<td>• Identify resources and costs of options</td>
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<td></td>
<td>• Assess concept design and develop that assessment for detailed designs</td>
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<td></td>
<td>• Are aware of IP constraints and opportunities</td>
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<tr>
<td></td>
<td>• Assess building engineering solutions for statutory compliance.</td>
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<td></td>
<td>Evidence could include how you put in place management or assessment process to:</td>
</tr>
<tr>
<td>• Consider how better to assess products</td>
<td>• Operate and maintain processes, systems etc</td>
</tr>
<tr>
<td>• Interpret, assess and analyse performance</td>
<td>• Contribute to the evaluation of the effectiveness of designs, including risk, safety and potentially life cycle considerations</td>
</tr>
<tr>
<td>• Contribute to determining critical success factors</td>
<td>• Assess risks and identify hazards</td>
</tr>
<tr>
<td>• Plan inspection process and records</td>
<td>• Undertake site inspection process and records</td>
</tr>
<tr>
<td>• Apply site health and safety precautions</td>
<td>• Obtain and assess records and certificates required</td>
</tr>
<tr>
<td>• Monitor and check testing and commissioning regimes.</td>
<td>• Lead or manage project planning activities</td>
</tr>
<tr>
<td></td>
<td>• Produce and implement procurement activities or project plans</td>
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<td>• Carry out project risk assessments</td>
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<td>• Collaborate with key stakeholders and negotiate agreement to your planned activity or requirements.</td>
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<tr>
<td></td>
<td>• Plan programmes and the delivery of tasks.</td>
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<tr>
<td></td>
<td>• Identify resources and costs</td>
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<td></td>
<td>• Negotiate and agree contracts, work orders or manage variations.</td>
</tr>
</tbody>
</table>

**B3** Manage or assess implementation of building engineering solutions, and evaluate their effectiveness. This could include an ability to:

- Ensure that the application of the design results in the appropriate practical outcome
- Implement or assess building engineering solutions, taking account of critical constraints, including due concern for safety and sustainability
- Determine the criteria for evaluating building engineering solutions
- Evaluate the outcome against the original specification, requirement or objective
- Actively learn from feedback on results to improve future building engineering solutions and build best practice.

Evidence could include how you put in place management or assessment process to:

- Consider how better to assess products
- Operate and maintain processes, systems etc
- Contribute to the evaluation of the effectiveness of designs, including risk, safety and potentially life cycle considerations
- Contribute to product or system improvement
- Interpret, assess and analyse performance
- Contribute to determining critical success factors
- Assess risks and identify hazards
- Plan inspection process and records
- Undertake site inspection process and records
- Apply site health and safety precautions
- Obtain and assess records and certificates required
- Monitor and check testing and commissioning regimes.

**C – Responsibility, management and leadership**

**C1** Plan for effective project implementation or project management. This could include an ability to:

- Systematically review the factors affecting project implementation or project management including safety and sustainability considerations
- Define an holistic and systematic approach to risk identification, assessment and management
- Lead on preparing and agreeing implementation or project plans and develop necessary method statements
- Ensure that the necessary resources are secured and where appropriate brief the project team
- Negotiate the necessary contractual arrangements with other stakeholders (client, subcontractors, suppliers, etc.).

Evidence could include how you:

- Lead or manage project planning activities
- Produce and implement procurement activities or project plans
- Carry out project risk assessments
- Collaborate with key stakeholders and negotiate agreement to your planned activity or requirements
- Plan programmes and the delivery of tasks
- Identify resources and costs
- Negotiate and agree contracts, work orders or manage variations.
<table>
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<tr>
<th>General Competency</th>
<th>Evidential Scope</th>
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</table>
| **C2** Plan, budget, organise, direct and control tasks, people and resources. This could include the ability to:  
- Set up appropriate management or project management systems to deliver building engineering outcomes  
- Define quality standards, programme and budget within legal and statutory requirements  
- Organise and lead (or proactively contribute within) 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. | Evidence could include how you:  
- Take responsibility for and control project operations  
- Manage the balance between quality, cost and time  
- Manage risk registers and contingency systems  
- Manage project funding, fees, payments and recovery  
- Satisfy legal and statutory obligations  
- Lead/manage tasks within identified financial, commercial and regulatory constraints. |
| **C3** Lead or engage with project teams and develop staff (or your own skill set) to meet changing technical and managerial needs as and when necessary. This could include the ability to:  
- Agree objectives and work plans with clients or teams and individuals  
- Identify team and individual needs, and plan for their development  
- Reinforce team or individual commitment to professional standards  
- Lead and support team or individual development  
- Assess team or individual performance, and provide feedback  
- Lead in recognising and promoting inclusion and diversity. | Evidence could include how you:  
- Carry out or contribute to staff appraisals or undertake self appraisal  
- Plan or contribute to the training and development of staff or improvement of your own skills  
- Gather evidence from colleagues, people or organisations that you work with of how well you are dealing with change in building engineering management or practice  
- Carry out or contribute to disciplinary procedures. |
| **C4** Support continuous improvement through quality management. This could include an ability to:  
- Improve quality of outcomes in your organisation and its customer and supplier networks  
- Develop or maintain operations that meet quality standards  
- Direct or manage project, process or technical evaluations and propose recommendations for improvement. | Evidence could include how you:  
- Plan to work with or implement best practice quality management systems, such as ISO 9000, EFQM or balanced scorecard  
- Carry out quality audits or measure performance of your role or organisation  
- Monitor, maintain and improve delivery of your building engineering service  
- Identify, implement and evaluate changes to meet quality objectives. |

**D – Communication and interpersonal skills**

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<tr>
<th>D</th>
<th>Demonstrate effective interpersonal skills.</th>
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</table>
| **D1** Communicate effectively with others at all levels. This should include the ability to:  
- Lead, chair, contribute to and record meetings and discussions  
- Prepare communications, documents and reports on complex matters  
- Exchange information and provide advice to technical and non-technical colleagues. | Evidence could include:  
- Reports, letters, e-mails, drawings, specifications and working papers (e.g. meeting minutes, planning documents, correspondence) in a variety of formats  
- Engagement or interacting with professional networks. |
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<tr>
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<tbody>
<tr>
<td><strong>D2</strong> Present and discuss proposals. This should 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 • Raise the awareness of risk.</td>
<td>Evidence could include: • Presentations, records of discussions and their outcomes.</td>
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<tr>
<td><strong>D3</strong> Demonstrate personal and social skills. This could include the ability to: • Know and manage own emotions, strengths and weaknesses • Be aware of the needs and concerns of others, especially where related to inclusion, diversity and equality. • 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.</td>
<td>Evidence might include: • Records of meetings. • Evidence from colleagues of your personal and social skills • Taking responsibility for productive working relationships • Applying diversity and anti-discrimination legislation • Public consultation or direct engagement with a diverse range of people to improve inclusion, diversity and equality in the built environment.</td>
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<tr>
<td><strong>E – Professional commitment</strong></td>
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<tr>
<td><strong>E1</strong> Comply with the CABE and any other relevant Code of conduct. This should include the ability to: • Comply with the CABE Code of Conduct • Lead work within all relevant legislation and regulatory frameworks, including social and employment legislation.</td>
<td>Evidence should include how you: • Work with a variety of conditions of contract. • Demonstrate initiative in and commitment to the affairs of your company • Lead in evaluating your own performance as an example to others.</td>
</tr>
<tr>
<td><strong>E2</strong> 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 and culture • Manage, evaluate and improve these systems • Apply a sound knowledge of health and safety legislation.</td>
<td>Evidence could include how you demonstrate understanding and application of health and safety legislation including: • Construction Design and Management (CDM) Regulations • Health and Safety + Workplace Legislation. Evidence could include formal health and safety training relevant to your work, including: • How you work with health and safety legislation and best practice. In the UK, examples include HASAW 1974, CDM regulations, OHSAS 18001:2007 and company safety policies • Carry out safety audits • Identify and minimise hazards • Assess and control risks • Deliver health and safety briefings and inductions.</td>
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</table>
| **E3** Undertake building engineering 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  
  - Apply the principles of inclusive design to ensure the built environment meets the needs of a diverse range of users  
  - 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  
  - Use resources efficiently and effectively. | Evidence could include how you:  
  - Carry out or contribute to environmental impact assessments  
  - Plan and implement best practice environmental management systems, e.g. ISO 14000  
  - Manage best practice risk management systems e.g. ISO 31000  
  - Work within environmental legislation  
  - Adopt sustainable practices in your building engineering work or practice  
  - Achieve social, economic and environmental outcomes  
  - Lead on delivering a more inclusive built environment. |
| **E4** Carry out and record CPD necessary to maintain and enhance competence in own area of practice including:  
  - Undertake reviews of own development needs  
  - Plan how to meet personal and organisational objectives  
  - Carry out planned (and unplanned) CPD activities  
  - Maintain evidence of competence development  
  - Evaluate CPD outcomes against any plans made  
  - Assist others with their own CPD. | Evidence could include how you:  
  - Keep up to date with national and international building control issues.  
  - Maintain CPD plans and records.  
  - Involve yourself with the affairs of your institution.  
  - Evidence your development through on-the-job learning, private study, in-house courses, external courses and conferences. |
| **E5** Exercise responsibilities in an ethical manner. | Evidence should include how you have led in applying ethical principles in your work.  
  - Give an example of where you have applied/upheld ethical principles as set out in the CABE statement of ethical professional, or by your organisation or company (which may include ethics set out in its company or brand values)  
  - Demonstrate the ability to lead a balanced discussion exploring your views or position and the views and position of others on typical ethical challenges for building engineers. |
We’re here to help

If you have any queries about Membership Competency Frameworks, please contact us. You can also find out further information at cbuilde.com

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