Minutes of the CIBSE Lifts Group Executive Committee Meeting

05 Jan 2024, 1400-1548h

PRESENT

Adam Scott – AS Dave Cooper - DC John Bashford - JB Michael Bottomley - MB Nick Mellor - NM Paul Clements - PC Phil Pearson - PP Richard Peters - RP Wee Chuan Lim - CL

APOLOGIES

John Carroll Rory Smith Stefan Kaczmarczyk Vincent Sharpe

DISTRIBUTION

Those present, apologies and web site.



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| I | | I |
|----|--|-----------------------|
| 1. | Welcome and apologies | |
| | The meeting was opened by CL. Apologies received were noted. Purpose: pre AGM discussions. | Note |
| 2. | Past AGM Minutes | |
| | Item 5: - Elections, same apart from Gina and adding Erkan. Published on the Eventbrite invitations. | Note |
| | Item 6: - Events in 2024 covered in next section. | Note |
| | Item 7: AS, MB and NM to share updates PC shared linkedin Posts plan. All Execs to comment and contribute. DC not update on training or apprenticeship. | AS/MB/NM ALL Execs |
| | Item 8: - RP: will provide update on finances. Suggest we freeze our account for 2024. As CIBSE has approved the budget request for 2024. | RP |
| | Item 9: - AS and NM to share slides to be included. | AS/NM |
| 3. | Events in 2024 | |
| | Annual General Meeting 2024 and Evening Seminars (London) 21 February 2024, 1530 - 1800h CIBSE HQ – Balham Seminar: Building Safety Act with Hywel Davies PP to confirm. CL to set up TEAMS invite for recording and AS | PP CL |
| | Scotland Regional Seminar 2 May 2024 Lester controls Glasgow MB/PP to confirm. | MB/PP |
| | MB/PP to confirm. | PP |
| | 15th Lifts and Escalator Symposium 18-19 September 2024 Kettering Park hotel and spa | |
| | Build2Perform at London Excel 13-14 November 2024 | |
| | Annual Seminar 12 November 2024 CIBSE HQ – Balham | |
| | CL to confirm with CIBSE. | CL |

| 4. | AGM Eventbrite CL: reminded All Execs to register. | ALL Execs |
|----|--|-----------|
| 5. | CL: shared summary with all execs. RP: will not be able to help in 2024. MB: wants a vote to be held by those who are attendance, that we should continue working towards moving into a society. | ALL Execs |
| 6. | UK-Spec HRB – VT Annex CL: shared draft a VT Annex that we can explore to create a VT specific professional qualification process. All Execs to share comments. AS: the published UK-Spec has nothing specific on lifts. AS/NM/PP/MB: opportunity to clarify with Hywel Davies at the seminar on 21 Feb. | ALL Execs |
| 7. | Next Meeting 21 February 2024 before AGM at CIBSE Balham | ALL Execs |

End

CIBSE LIFTS GROUP >>>> SOCIETY



Special Interest Groups

CIBSE's Special Interest Groups encompass topics that cut across our building services engineering disciplines to provide up to date information and resources.

- ASHRAF
- BUILDING SIMULATION
- CHP & DISTRICT HEATING
- DAYLIGHT GROUP
- ELECTRICAL SERVICES
- ENERGY PERFORMANCE
- FACILITIES MANAGEMENT
- HEALTHCARE
- HOMES FOR THE FUTURE
- HVAC SYSTEMS
- INFORMATION TECHNOLOGY (IT) & CONTROLS
- INTELLIGENT BUILDINGS
- LIFTS
- NATURAL VENTILATION
- RESILIENT CITIES
- SCHOOL DESIGN

Each group offers a programme of events each year from which you can participate to fulfil your CPD, as well as communicating with their members about the relevant policy and guidance updates for their chosen area of interest.

Our specialist interest groups are **run by committees**; teams of volunteers that are elected annually at each group's Annual General Meeting. Group members wishing to become a part of the committee can put their name forward for election when the date is announced to the group. The group chairs sit on the CIBSE Council.

Committees can co-opt members at any point throughout the year. General members of group committees do **not need to be a CIBSE member**; they just need to be a member of the Specialist Interest Group. Officer roles (Chair, Vice Chair, Honorary Treasurer and Honorary Secretary) do have membership requirements for election.

Currently

CLG Members = CIBSE Members + Non CIBSE Members

= 1017 + 723

= 1763

| CIBSE Membership Grade | Number of CLG members 2022 | | |
|--------------------------------------|-------------------------------|--|--|
| Honorary Fellow | 3 | | |
| Fellow (FCIBSE) | 82 | | |
| Member | 545 | | |
| Associate (ACIBSE) | 70 | | |
| Licentiate (LCIBSE) | 35 | | |
| Affiliate | 224 | | |
| Graduate | 37 | | |
| Student Part Time and Apprentices | 10 | | |
| Student Full Time | 11 | | |
| Total | 1017 | | |

Activities

Executive meetins 4-5 seminars/events annually AGM CIBSE Guide D General assistance to industry

The Officer Nominations for 2024 are:

Chair - Michael Bottomley Vice Chair - Phil Pearson Secretary - Wee Chuan Lim Treasurer - Richard Peters

The Committee Position Nominations for 2024 are:

Events Organiser (North and South) - Phil Pearson / Erkan Soydan BSi Representative - Adam Scott **Event Exhibition - John Bashford** Training Development and SAFED Representative - David Cooper Press and Publicity - Paul Clements LEIA Representative - Nick Mellor University of Northampton Representative - Stefan Kaczmarczyk **INITA Representative - Vince Sharpe** International Representative USA - Rory Smith International Representative AU - John Carroll

Societies

CIBSE societies represent key specialisms of the building services industry, offering professional recognition to their members and support the science, art and practice of their field.



The 'corporate supporters' of CIBSE

because we are a group of businesses who collaborate to give financial, technical and moral backing to a wide



SOCIETY OF LIGHT AND LIGHTING (SLL)

With over **3300 members globally**,

range of initiatives led by the Institution. the SLL is recognised as an authority on lighting and welcomes all who are interested in any aspect of the world of light, lighting, and its design or application, with an impressive library of MCIBSE CEng status through a publications.

> SLL Sustaining Members are a network of businesses who collaborate least one interviewer on the panel to give financial, technical and moral support to a wide range of Society initiatives. The Electrotechnical Certification Scheme (ECS) accepts applications from members SLL for the Professionally Qualified Person (PQP) card, providing construction site access.

The SLL offers different grades of membership, depending on lighting knowledge and experience.

- Student Membership
- Affiliate Membership
- Associate Member (AMSLL)
- Member (MSLL)
- Fellow (FSLL)



SOCIETY OF FACADE ENGINEERING (SFE)

Formed in 2004 as a joint initiative of CIBSE, IStructE and the RIBA, with about 1700 members

It is now also possible to apply for tailored Facade Engineering route, which will also grant MSFE

status. This will ensure that at is a facade engineer familiar with the experience required of facade engineers applying through this route.

- Student Membership
- Affiliate Membership
- Associate Member (AMSLL)
- Member (MSLL)
- Fellow (FSLL)



CIBSE Lifts

 The SLL Lighting Handbook (2018) The SLL Code for Lighting (2022)

SLL Lighting Guides

- · SLL Lighting Guide It: Introduction to light and lighting (2017)
- SLL Lighting Guide 1: The industrial environment (2012, updated 2018)
- SLL Lighting Guide 2: Lighting for healthcare premises (2019)
- SLL Lighting Guide 4: Sports lighting (2023)
- SLL Lighting Guide 5: Lighting for education (2011) (under review) SLL Lighting Guide 6: The exterior environment (2016)
- SLL Lighting Guide T: Offices (2023)
- · SLL Lighting Guide 8. Lighting for museums and art galleries (2021)
- SLL Lighting Guide 9: Lighting for communal residential buildings (2022)
- SLL Lighting Guide 10: Davlighting A guide for designers (2014)
- SLL Lighting Guide 11: Surface reflectance and colour (2001)
- SLL Lighting Guide 12: Emergency lighting (2022) SLL Lighting Guide 13: Lighting for places of worship (2014, updated 2011)
- SLL Lighting Guide 14: Control of electric lighting (2023)
- SLL Lighting Guide 15: Transport buildings (2017)
- SLL Lighting Guide 16: Lighting for stairs (2017)
- SLL Lighting Guide 17: Lighting for retail premises (2018)
- SLL Lighting Guide 18: Lighting for licensed premises (2018)
- SLL Lighting Guide 19: Lighting for extreme conditions (2019) SLL Lighting Quide 20: Lighting for facilities management (2020)
- · SLL Lighting Guide 21: Protecting the right-time environment (2021)
- SLL Lighting Guide 22: Lighting for control rooms (2022)

Other SLL Lighting Publications

- Commissioning Code L: Lighting (2018)
- TM66 Creating a circular economy in the lighting industry (2021)
- TM05.2 Embodied carbon in building services: lighting (2023) Reflections on 100 years of lighting in the UK (2009)

ILEVE

INSTITUTE OF LOCAL EXHAUST VENTILATION ENGINEERS (ILEVE)

The ILEVE recognise competence in the practical application of local exhaust ventilation and to raise awareness of the importance of good air quality and ventilation in workplaces

Providing a membership designation FILEVE, MILEVE, AILEVE as a credential giving others evidence of demonstrated knowledge and skills. Setting the criteria for best practice in the profession

ILEVE corporate members are issued with **competency cards** to demonstrate their accredited fields of expertise. New cards are issued each year and the expiry date is clearly shown, ensuring that demonstrated competencies are up-to-date.



SOCIETY OF DIGITAL **ENGINEERING (SDE)**

Formed to provide a home for those involved in digitising the built environment, either as designers, contractors, manufacturers, clients, facility managers or software vendors.

SDE Partner Membership offers organisations the opportunity to 'Partner' with the Society of Digital Engineering and its members.

Those involved in the higher management of digital engineering on projects will be able to join as Associates, Members or Fellows, to recognise their seniority in the industry and gain designatory letters of **ASDE**, MSDE or FSDE

Digital Engineering Series | 18 CPD

The Digital Engineering Series is aimed at those involved in all stages of a project: engagement, design, construction, handover, and use of a constructed asse

Each module purchased comes with a complimentary relevant publication to support your learning experience. View Digital Engineering publications

These Digital Engineering Series modules reflect the contents of the BS and PAS 1192 series. These have now been largely superseded by the ISO 19650 series. However, the processes and procedures remain the same, even if some of their names have changed. For a better understanding of these changes, please refer to PD 19650-0, which covers the transition from the "1192 series" to the ISO 19650 serie



SOCIETY OF PUBLIC HEALTH ENGINEERS (SoPHE)

The Society of Public Health Engineers (SoPHE) aims to provide a higher profile and focus for public health engineers within CIBSE.

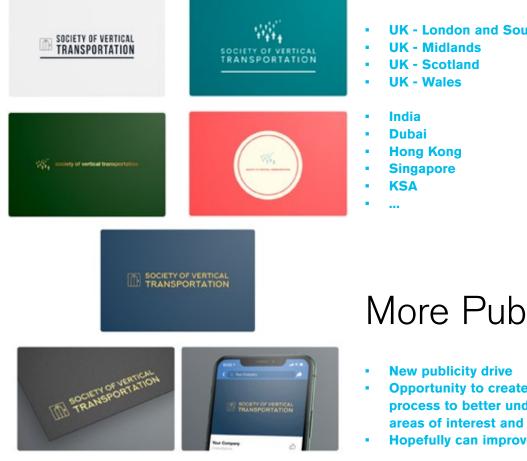
The Society has its own classes of membership independent of those of CIBSE: (ASoPHE, MSoPHE, FSoPHE)

A society charge of £10-£30 over and above the lowest cost membership enables us to fund a greater level of activity and there is also a membership class for companies - **SoPHE** Industrial Associates - who wish to be involved with the Society's work.

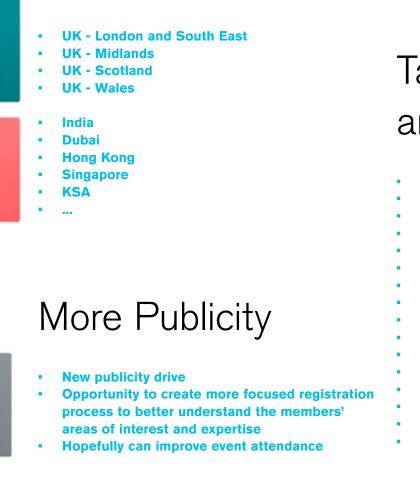
Annual Technical Conference, Quarterly Newsletter and to attract YEN, talks and site visits arranged in 2023.

New Name and LOGO

Society of Vertical Transportation (SVT)



Regional and Young Engineers / Apprentice Networks



Succession

- The current committee is very stretched.
- More roles creates a pool of candidates for taking on committee responsibilities.
- Provide wider prospective of the industry

Targeted Learning and Events

- Technical
- Installation
- Construction
- Sales
- Repair
- Service Production
- Operations
- Compliance
- Inspection
- Health & Safety
- Project Management
- Traffic analysis
- Legislation, Codes and Standards
- ESG
- Contracts and financial awareness



- Dedicated budget Trade affiliation Bursaries Scholarships and awards Gala Dinners Courses, Seminars + Training

- **More Publication** CIBSE Guide D Design Handbooks Industry focused library / database

- Student Membership
- Affiliate Membersh Associate Member (AMSVT) Member (MSVT) Fellow (FSVT)

POSSIBILITIES

Additional Funding

Route to qualification and grades of membership

Refer Draft UK-SPEC-HRB VT Annex

CONCERNS

Limited CIBSE Support

- Although much improved in 2023, CIBSE depends on each Society / Group to lead and run all their activities. We do not think we will be receiving more support, even as a society.
- We may not gain access to the membership data collected due to privacy and confidentiality

Committee is already stretched

- The current committee needs to grow with new volunteers to take on roles, it has been very difficult to attract new members willing to commit time.
- At least for the initial year of the Society, the current committee will be responsible. These usually lands on the shoulder of the same individuals.
- Route to qualification and grades of membership require more commitment
- The gualified VT Panel will need to be identified. Initially from the CLG Committee and hopefully more when more are professionally qualified via the bespoke VT route.

- Cost
- Society requires payment towards CIBSE and Society

CIBSE takes over funding account

At the moment CLG maintains a separate account and am free to decide how funds are used. Will we lose that autonomy?

Society of Facade Engineer (SFE) Feedback

- 1700-2000 members
- Need to pay for CIBSE and Society membership
- Events usually only attended by Facade related members
- 350 attended GALA dinner in Park Lane, £500/ ticket
- They have a budget but have not idea how the profits are used.
- Bespoke route to Facade Engineering qualification started 18 months ago.
- Require assessor training
- CIBSE support is generally lacking. many of the communication staff have left.
- Organising events still a huge weight on handful of volunteers. Finding succession is really difficult.



If the CLG wants to create a VT specific Competency ANNEX, it may look like this...

Vertical Transportation **Discipline Annex**

to the UK Standard for Professional Engineering Competence and Commitment Contextualised for Higher-Risk Buildings (UK-SPEC HRB)

First edition

Published December 2023







Lift Industry Career Pathways

The Lift and Escalator industry is the perfect place for people with ambition. As you gain more experience and qualifications, your opportunities to progress get bigger You could take up a specialism or move into other areas of the industry like operations, sales or management.

Regardless of being part of a large or smaller company, there are lots of different pathways for your career progression in the Lift Industry. Stay with one employer

and climb the ladder, mix it up and travel the UK or take a sideways step into an area that really interests you.

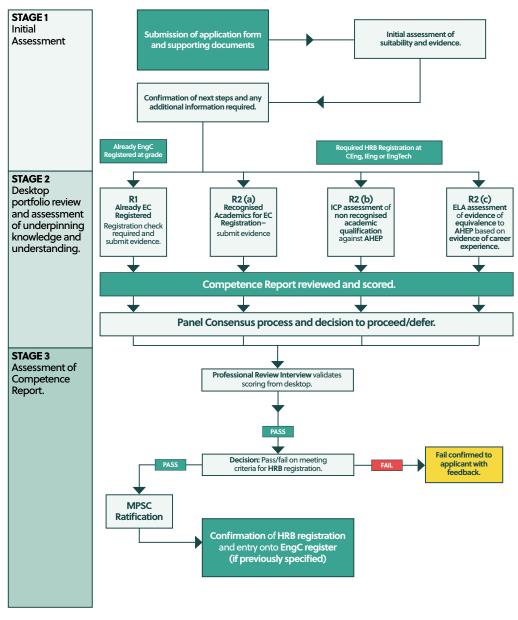
Wherever there is a lift or escalator, there is a need for a Lift and Escalator Engineer. The industry isn't going anywhere - it's vital in today's world and is constantly growing. We're a close, supportive community, our industry will look after you

Get involved today - there's no limit to how far you can go!



Section 2: HRB Application Process

The following flow chart provides an overview of the three primary stages of the HRB registration process which are the same for all applicants. The detailed route you will follow is determined at Stage 1 following receipt of your application form and HRB Competence Report, with desktop assessment and review of evidence submitted at Stage 2 before proceeding to a Professional Review Interview at Stage 3. Further detail on each stage is provided in the guidance documents.



Engineering Council – HRB Registration



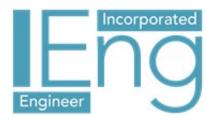
Chartered Engineers are able to demonstrate:

The theoretical knowledge to solve problems in new technologies and develop new analytical techniques

- Successful application of the knowledge to deliver innovative products and services and/or take technical responsibility for complex engineering systems
- Accountability for project, finance and personnel management and managing trade-offs between technical and socio-economic factors
- Skill sets necessary to develop other technical staff
- Effective interpersonal skills in communicating technical matters.

Eligibility

- A Bachelors degree, with Honours, in engineering or technology, accredited for CEng, plus an appropriate and accredited Masters degree or Engineering Doctorate (EngD), or appropriate further learning to Masters level
- An accredited integrated MEng degree



Incorporated Engineers are able Eligibility to demonstrate:

- analytical techniques
- Successful application of their knowledge to deliver engineering projects or services experience. using established technologies and methods
- Responsibility for project and financial planning and management together with some responsibility for leading and developing other professional staff
- Effective interpersonal skills in communicating technical matters
- Commitment to professional engineering values.

The IEng title is open to anyone The theoretical knowledge to who can demonstrate the required solve problems in developed professional competences and technologies using well proven commitment, as set out in the professional standard UK-SPEC. Individuals generally develop this through education and working

- An accredited Bachelors or honours degree in engineering or technology
- An accredited HNC or HND in engineering or technology (for programmes started before Sept 1999)
- An HNC or HND started after Sept 1999 (but before Sept 2010 in the case of the HNC) or a Foundation Degree in engineering or technology, plus appropriate further learning to degree level
- An NVQ4 or SVQ4 that has been approved for the purpose by a licensed engineering institution, plus appropriate further learning to degree level*



Engineering Technicians are required to apply safe systems of work and are able to demonstrate::

- Evidence of their contribution to commitment. either the design, development manufacture, commissioning, Typically, applicants will have decommissioning, operation or maintenance of products, equipment, processes or services
- Supervisory or technical responsibility
- Effective interpersonal skills in communicating technical matters
- Commitment to professional engineering values.

Overview and FAQs

https://liftcareers.co.uk/wp-content/uploads/2021/12/leia-career-mapdownload-final.pdf

https://cdn.ymaws.com/cbuilde.com/resource/resmgr/engineering_council/ hrb/ec_hrb_overview_-_no_link.pdf

https://www.cibse.org/membership-registration/professional-registration/ higher-risk-buildings-registration

https://www.engc.org.uk/professional-registration/the-professional-titles/

Assessment

All applicants for the HRB Register will be required to write an Engineering Practice Report demonstrating how they meet the HRB Competences and attend Professional Review Interview.

I already hold EngC Registration and wish to apply for the same level of HRB Registration.

You will be required to write an Engineering Practice Report on the HRB Competences and attend Professional Review Interview.

Eligibility

EngTech registration is open to anyone who can demonstrate the required professional competences and

successfully completed an Advanced/ Modern Apprenticeship or other work based learning programme approved by their professional engineering institution. This can lead directly to Engineering Technician registration.

Or, alongside appropriate working experience, they will hold:

a gualification, approved by a licensed professional engineering institution, in engineering or construction set at level 3 (or above) in the Qualifications and Credit Framework/National Qualifications Framework for England and Northern Ireland; or at level 6 (or above) in the Scottish Credit and Qualifications Framework; or at level 3 (or above) in the Credit and Qualifications Framework for Wales:

 or equivalent gualifications approved by a licensed professional engineering institution.

Golden thread definition

Summary

The golden thread is both the information that allows you to understand a building and the steps needed to keep both the building and people safe, now and in the future.

Full definition

1. The golden thread will hold the information that those responsible for the building require to:

- show that the building was compliant with applicable building regulations during its construction and provide evidence of meeting the requirements of the new building control route throughout the design and construction and refurbishment of a building
- identify, understand, manage and mitigate building safety risks responders). in order to prevent or reduce the severity of the consequences of fire spread or structural collapse throughout the life cycle of a building

2. The information stored in the golden thread will be reviewed and managed so that the information retained, at all times, achieves these purposes.

3. The golden thread covers both the responders. information and documents and the information management processes (or steps) used to support building safety.

4. The golden thread information should be stored as structured digital information. It will be stored, managed, maintained and retained in line with the golden thread principles (see below). The government will specify digital standards which will provide guidance on how the principles can be met.

5. The golden thread information management approach will apply through design, construction, occupation, refurbishment and ongoing management of buildings. It supports the wider changes in the regime to promote a culture of building safety.

6. Building safety should be taken to include the fire and structural safety of a building and the safety of all the people in or in the vicinity of a building (including emergency

7. Many people will need to access the golden thread to update and share golden thread information throughout a building's lifecycle, including but not limited to building managers, architects, contractors and many others. Information from the golden thread will also need to be shared by the Accountable Person with other relevant people including residents and emergency

The golden thread principles

1. Accurate and Trusted: the dutyholder/Accountable Person/Building Safety Managers and other relevant persons (e.g. contractors) must be able to use the golden thread to maintain and manage building safety and ensure compliance with building regulations. The Regulator should also be able to use this information as part of their work to assess the compliance with building regulations, the safety of the building and the operator's safety case report, including supportive evidence, and to hold people to account. The golden thread will be a source of evidence to show how building safety risks are understood and how they are being managed on an ongoing basis. The golden thread must be accurate and trusted so that relevant people use it. The information produced will therefore have to be accurate, structured, and verified, requiring a clear change control process that sets out how and when information is updated and who should update and check the information.

2. Residents feeling secure in their homes: residents will be provided information from the golden thread - so that they have accurate and trusted information about their home. This will also support residents in holding Accountable Persons and Building Safety Managers to account for building safety. A properly maintained golden thread should support Accountable Persons in providing residents the assurance that their building is being managed safely.

3. Culture change: the golden thread will support culture change within the industry as it will require increased competence and capability, different working practices, updated processes and a focus on information management and control. The golden thread should be considered an enabler for better and more collaborative working.

4. Single source of truth: the golden thread will bring all information together in a single place meaning there is always a 'single source of truth'. It will record changes (i.e. updates, additions or deletions to information, data, documents and plans), including the reason for change, evaluation of change, date of change, and the decision-making process. This will reduce the duplication of information (email updates and multiple documents) and help drive improved accountability, responsibility and a new working culture. Persons responsible for a building are encouraged to use common data environments to ensure there is controlled access to a single source of truth.

5. Secure: the golden thread must be secure, with sufficient protocols in place to protect personal information and control access to maintain the security of the building or residents. It should also comply with current GDPR legislation

where required.

6. Accountable: the golden thread will record changes (i.e. updates, additions or deletions to information, data, documents and plans), when these changes were made, and by who. This will help drive improved accountability. The new regime is setting out clear duties for dutyholders and Accountable Person for maintaining the golden thread information to meet the required standards. Therefore, there is accountability at every level – from the Client/Accountable Person to those designing, building or maintaining a building.

7. Understandable/consistent: the golden thread needs to support the user in their task of managing building safety and compliance with building regulations. The information in the golden thread must be clear, understandable and focused on the needs of the user. It should be presented in a way that can be understood, and used by, users. To support this, dutyholders/Accountable person should where possible make sure the golden thread uses standard methods, processes and consistent terminology so that those working with multiple buildings can more easily understand and use the information consistently and effectively.

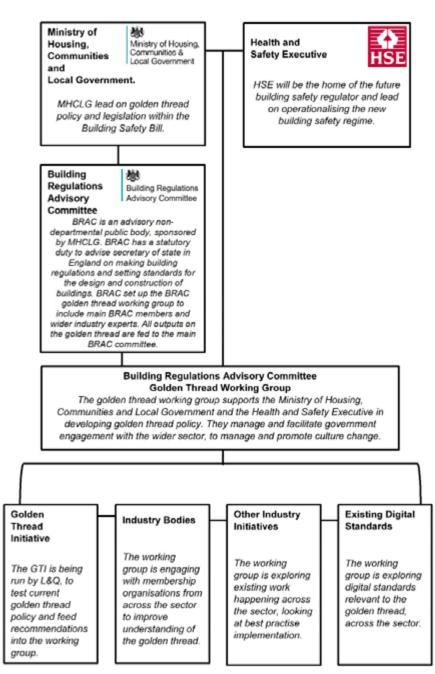
8. Simple to access (accessible): the golden thread needs to support the user in their task of managing building safety and therefore the information in the golden thread must be accessible so that people can easily find the right information at the right time. This means that the information needs to be stored in a structured way (like a library) so people can easily find, update and extract the right information. To support this the government will set out guidance on how people can apply digital standards to ensure their golden thread meets these principles.

thread information needs to be formatted in a way that can be easily handed over and maintained over the entire lifetime of a building. In practical terms, this is likely to mean that it needs to align with the rules around open data and the principles of interoperability – so that information can be handed over in the future and still be accessed. Information should be able to be shared and accessed by contractors who use different software and if the building is sold the golden thread information must be accessible to the new owner. This does not mean everything about a building and its history needs to be kept, the golden thread must be reviewed to ensure that the information within it is still relevant and useful.

10. Relevant/proportionate: preserving the golden thread does not mean everything about a building and its history needs to be kept and updated from

9. Longevity/durability and shareability of information: the golden

inception to disposal. The objective of the golden thread is building safety and therefore if information is no longer relevant to building safety it does not need to be kept. The golden thread, the changes to it and processes related to it must be reviewed periodically to ensure that the information comprising it remains relevant and useful.



High Risk Building (HRB)

Use criteria

For a building to qualify as a higher-risk building, it will meet

either

the height (18 metres or higher) or storeys (seven storeys or more) threshold, and will contain at least two residential units,

or

be a care home or hospital, as specifed in the regulations set out at: www.legislation.gov.uk

To be considered a higher-risk building during the design and construction phase of the regime, a proposed new building must meet a certain set of use criteria. This is in addition to meeting the height or storeys threshold.

If a proposed new building meets the height or storeys threshold and contains at least two residential units, is or contains a hospital or a care home, then it is a higher-risk building. This applies unless the entire building is used as a secure residential institution, hotel, or military barracks, or if the building contains any living accommodation provided by the Ministry of Defence for military personnel. These buildings are explicitly excluded.

Higher-risk buildings, for the design and construction requirements, are defined in both Section 120D of the Building Act 1984 (the 1984 Act) as amended by the Building Safety Act 2022 (the 2022 Act) and the Higher-Risk Buildings (Descriptions and Supplementary Provisions) Regulations 2023 (the Regulations).

To understand whether a proposed new building is a higher-risk building, the 1984 Act as amended by the 2022 Act, and the Regulations need to be considered together.

https://www.gov.uk/government/publications/building-regulations-advisorycommittee-golden-thread-report/building-regulations-advisory-committee-goldenthread-report#golden-thread-definition

https://www.gov.uk/government/collections/guidance-on-the-criteria-for-beinga-higher-risk-building

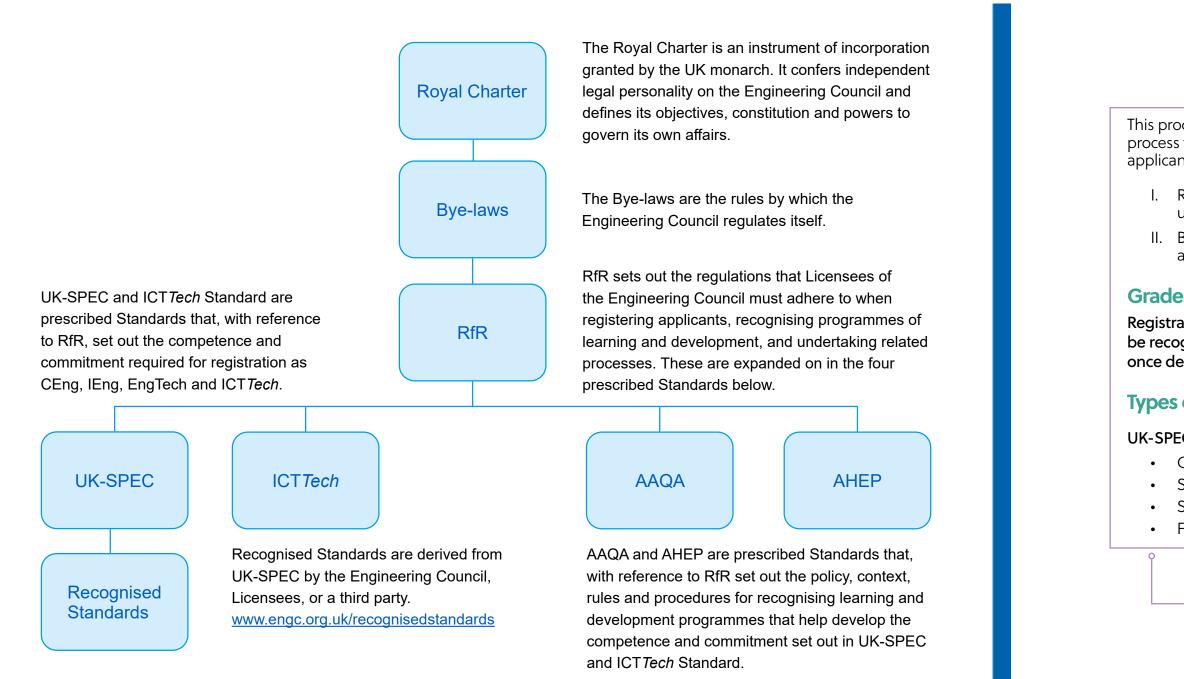
Hierarchy of regulations and standards

The Engineering Council is the UK's regulatory body for the engineering profession. It operates under a Royal Charter and is governed by a Board that represents UK Licensees as well as individuals from industries and sectors with an interest in the regulation of the profession.

This document is one in a series of closely related publications:

- Regulations for Registration (RfR)
- Regulations for Licensing (RfL)
- The UK Standard for Professional Engineering Competence and Commitment (UK-SPEC)
- Information and Communications Technology Technician Standard (ICTTech Standard)
- Approval and Accreditation of Qualifications and Apprenticeships (AAQA)
- Accreditation of Higher Education Programmes (AHEP)

The Engineering Council publishes these documents on behalf of the UK engineering profession, with whom they were developed and are kept under review. The relationship between these publications is:



The Engineering Council also publishes policy statements, guidance for institutions and guidance for individuals. These, along with all the publications listed above, are available on the Engineering Council website: <u>www.engc.org.uk</u>

3

This process is subject to licensing by Engineering Council and ongoing third-party review of the assessment process to ensure that outcomes are consistent and based on robust evidence of competence. However, applicants are reminded that:

Registration provides evidence of general levels of competence only and does not indicate the ability to undertake any task.

Building Engineers must therefore adhere strictly to working within the limits of their own competence and refuse to undertake work they know is beyond those limits.

Grades of registration for HRB

Registration for HRB is available at the existing three grades of Engineering Council registration which will be recognised by descriptors in addition to **CEng**, **IEng** and **EngTech** post nominals* (if applicable) (TBC once designations have been approved by the Engineering Council).

Types of registration for HRB

UK-SPEC for HRB sets out competence criteria relating to:

Generalist Engineering Disciplines (including Building Engineers) — Competencies CC - EE are common
 Structural Engineering disciplines

• Services Engineering Disciplines

• Fire Safety Disciplines.

· Vertical Transportation Annex?

WHY?

Elevators as part of evacuation strategy

Stranded Assets / modernisation considerations

Demonstrated competence to meet legislation and regulations

VT Annex for The Engineering Technician (EngTech) Standard

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| The Chartered Engineer (CEng) Standard | (|
| Glossary | ļ |

Foreword

Following the Grenfell Tower tragedy in 2017, Dame Judith Hackitt, commissioned by the UK Government, undertook an independent review of UK building regulations and fire safety: 'Building a Safer Future'. This report identified inconsistency in the processes and standards for assuring the skills, knowledge, experience and behaviours of those working on higher-risk buildings (HRBs), constituting a major flaw in the current regulatory system.

In response, a Competence Steering Group was set up under the auspices of the Industry Response Group and subsequently published two reports – Raising the Bar (2018) and Setting the Bar (2020). These reports led to development of the BSI 8670. This code of practice sets core building safety criteria for bodies that assess the competence of designers, contractors, fire risk assessors, building managers and specialist technical or corporate roles including engineers/technicians working on higher-risk buildings.Dame Judith's report informed drafting of building safety legislation which led to the Building Safety Act 2022. The intention is to ensure that everyone undertaking design work or building work is competent to do their work in a way that ensures compliance with building regulations.

In response to these reports, the Engineering Council developed UK-SPEC HRB as a Proprietary Standard designed to assess the competence and commitment of individual engineers and technicians working on higher-risk buildings in the UK. UK-SPEC HRB incorporates the criteria from BSI 8670 and sets out a sector-specific competence framework consisting of a core document and discipline annexes. Demonstrating competence could involve registration against the core framework only, or a combination of the discipline annexes: Fire Engineering, Structural Engineering and Building Services Engineering. Engineering Technicians apply proven techniques and procedures to the solution of practical engineering problems.

Engineering Technicians shall demonstrate:

- Engineering knowledge and understanding to apply technical and practical skills
- Evidence of their contribution to the design, development,
- manufacture, commissioning, decommissioning, operation or maintenance of products, equipment, processes or services Supervisory or technical responsibility
- Effective interpersonal skills in communicating technical matters • The ability to operate in accordance with safe systems of work and to demonstrate appropriate understanding of the principles of sustainability
- Commitment to professional engineering values

An Engineering Technician will be able to demonstrate their competence in all of the areas listed, but the depth and extent of their experience and competence will vary with the context, nature and requirements of their role. They will demonstrate a level of competence and commitment in each area, (AA1–EE5), at a level which is consistent with their specific role. It is to be expected that they will have a higher level of competence in some areas than others and their role may provide limited experience in certain areas. However, they need to demonstrate an understanding of, and familiarity with, the key aspects of competence in those areas of limited experience as a minimum requirement while demonstrating

higher levels of competence in those areas which are critical to their role. Overall, they will demonstrate an appropriate balance of competences to perform their role effectively at Engineering Technician level.

The examples of evidence are intended as guidance to help identify activities that might demonstrate the required competence and commitment for Engineering Technician registration. They are intended as examples only as the most appropriate evidence will vary with each individual role. The list is not exhaustive and other types of evidence might be valid. There is no requirement to provide multiple examples of evidence for each area of competence, but examples from two or three projects or tasks would be useful.

† It is not expected that applicants will necessarily meet all the listed criteria, but they will be expected to demonstrate competence against a substantial proportion of the scope, using a variety of sources and types of evidence, wherever this is relevant to their role. As part of their continuing professional development (CPD), successful applicants have an obligation to remain alert to any changes in their role or responsibilities and ensure the appropriate underpinning knowledge and understanding are updated accordingly. This is applicable throughout the document where "wherever relevant, applicants shall demonstrate the ability to:" is mentioned.

Applicants shall provide evidence from the HRB-specific criteria when developing their portfolio across the AA1-EE5 competences. Licensees' Professional Review assessors may request further evidence across any or all of the criteria.

Same as UK-SPEC-HRB

"Wherever relevant, applicants shall demonstrate the **knowledge** and understanding of: ..."

| Competence Scope | | | | Examples of evidence | HRB specific criteria |
|--|---|---|---|--|--|
| Knowledge and derstanding ineering Technicians shall engineering knowledge understanding to apply nnical and practical skills. s competence is about having wledge of fire, structural life safety, legislation, anologies, standards and ctices relevant to higher-risk dings (HRBs) and having lence of maintaining and lying this knowledge. | To the extent that it is relevant to their role, the applicant shall demonstrate that they: 1. Review and select appropriate fire, structural and building life safety systems and principles, throughout the building life cycle of HRBs*. | Fire Science Principles of heat transfer Properties of materials Principles of fire chemistry Principles of fire dynamics Human Behaviour and Evacuation Human behaviour and | Access and facilities for fire and emergency services Structural Safety Structural design / fixing of cladding / facade at height Secondary fixings specification and design Disproportionate collapse Protection from Falling or Collision Stair safety Guarding / balustrades Balconies Public Health Air quality / ventilation Above ground drainage Water storage Combustion appliances Building Services Gas appliances and services Electrical safety Mechanical services Fire integrities Building Fabric Interstitial condensation / corrosion Maintenance Glazing and glazing systems | Formal training related to your role in the application of relevant fire, structural and building life safety systems, as well as the principles and practices that are important throughout the building life cycle of HRBs Learning and developing the engineering knowledge needed to work in an industry area or discipline where the application of relevant fire, structural and building life safety systems, principles and practices are required Understanding the current and emerging technology and technical best practice principles and practices throughout the building life cycle of HRBs, in the relevant fire, structural and building life safety systems Developing a broader and deeper knowledge base through research and experimentation in the relevant fire, structural and building life cycle of HRBs Learning and developing new engineering theories and techniques on the relevant fire, structural and building life safety systems, principles and practices that are important throughout the building life safety systems, principles and practices that are important throughout the building life safety systems, principles and practices that are important throughout the building life safety systems, principles and techniques on the relevant fire, structural and building life safety systems, principles and practices that are important throughout the building life safety systems, principles and practices that are important throughout the building life safety systems, principles and practices that are important throughout the building life cycle of HRBs | fire safety and evacuation systems including any related life critical sub-systems |



nore specific codes 70, BS EN 81-72, BS EN 81-76, BS 9999, BS Plan etc

g of VT specific BIM framework?

| Competence | Scope |
|------------------------------------|-------|
| AA. Knowledge and understanding | |
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| Examples of evidence | HRB specific criteria |
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| Recognising, consulting with, updating and | |
| applying the golden thread of information on any development / design / application / | |
| integration for HRB fire safety, structural and | |
| building life safety systems. This will include | |
| any related life critical sub-systemsapplying | |
| the golden thread of information on any | |
| development / design / application / | |
| integration for HRB fire safety, structural and | |
| building life safety systems. This will include any related life critical sub-systems | |
| any related life childal sub-systems | |
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| Specification • Balconies design / application / integration of HRB fire safety, structural and building life safety systems are protected with secondary systems • Fire protection systems • Air quality / ventilation fire safety, structural and building life safety systems • Developing solutions involving complex or multidisciplinary technology in relation to fire suppression systems • Developing solutions involving complex or multidisciplinary technology in relation to fire safety systems and undertake regular performance tests to demonstrate function and operation in respect of the design intent eg Black building test • The correct function of the life safety systems and undertake regular performance tests to demonstrate the systems continue to meet the fire safety strategy and systems design intent eg Black building life safety systems including any related life critical sub-systems • Developing and evaluating continuous improvement systems on HRB fire safety systems, including any related life critical sub-systems • Developing and evaluating continuous improvement systems on HRB fire safety systems, including any related life critical sub-systems • Developing and evaluating continuous improvement systems on HRB fire safety systems, including any related life critical sub-systems • Developing and evaluating continuous improvement systems on HRB fire safety systems • Developing and evaluating continuous improvement systems on HRB fire safety systems • Developing and evaluating continuous improvement systems on HRB fire safety systems • Developing and evaluating continuous improvement systems on HRB fire safety systems • Developing and evaluating continuous improvement systems on HRB fire safety systems • Develo |
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secondary power supplies, switch over times, n for Fire Fighters and Evacuation.

| Competence | | Scope | | Examples of evidence | HRB specific criteria |
|--|---|--|---|---|---|
| and solving engineering problemsre ap ap thEngineering Technicians shall contribute to the design, development, manufacture, construction, commissioning, decommissioning, operation or maintenance of products, equipment, processes, systems or services in relation to HRBs.re ar wi re ar | o the extent that it is elevant to their role, the pplicant shall demonstrate hat they: . Identify problems and apply ppropriate theoretical and ractical methods to design, onstruct, commission, operate, haintain, decommission and ecycle building engineering rocesses, systems, services and product, in order to comply with relevant legislation, egulations, statutory guidance and standards of performance pplicable to HRBs. | Construction legislation relevant to higher-risk buildings (HRBs) including: Construction Legislation The Building Act 1984 The Building Safety Act 2022 and Regulations Building regulations Approved documents Approved Document 7: Materials and Workmanship Building regulations (procedural) Local acts / enactments Government communications / circular letters Sustainable and Secure Buildings Act 2004 Regulatory Reform (Fire Safety) Order 2005 Construction (Design and Management) Regulations 2007 Management of Health and Safety at Work Regulations Health and Safety at Work Act 1974 Gas Safety (Installation and Use) Regulations 1998 | Relevant case law Contract law Related Guidance Authoritative guidance as typically published by institutions, industry bodies and individuals including Collaborative Reporting for Safer Structures UK (CROSS-UK). Royal Institute of British Architects (RIBA) plan of work Building Services Research and Information Association (BSRIA) plan of work Civil, criminal, and case law Contract law Law of agency Employment law The Housing Acts 1985,1988, 1996, 2004 Housing Health and Safety Rating System Equalities Act 2010 Town and Country Planning Act 1990 Housing and Regeneration Act 2008 Licensing legislation | Identifying projects (for technical improvements to products, processes, or systems that are needed to undertake an engineering task within the development / design / application / integration) in regard to HRB fire safety, structural and building life safety systems Preparing specifications on the development / design / application / integration of HRB fire safety, structural and building life safety system, and taking account of functional and other requirements Establishing user requirements for improvements in HRB fire safety, structural and building life safety systems Reviewing specifications and tenders to identify technical issues and potential improvements, with specific focus on elements concerning the development / design / application / integration of HRB fire safety systems. These reviews must also consider, contribute, and innovate towards the continuation of the golden thread of information Conducting technical risk analysis on HRB fire safety, structural and building life safety systems. And identifying mitigation measures Considering and implementing new and emerging technologies within the development / design / application / integration / integration / integration of HRB fire safety, structural and building life safety systems. | Wherever relevant, applicants shall demonstrate the knowledge and understanding of: The roles of all disciplines forming part of the design, construction and operation teams eg Architect, Structural Engineers, Specialists, Contractors, Manufacturers, Facilities Managers / Engineers Theoretical and practical methods to the co-ordinated design and development of engineering solutions suitable for HRB to ensure safety in construction, use, maintenance and demolition Identifying problems and applying appropriate techniques, systems, procedures and methods to undertake the engineering design, construction and operation co-ordinating at all times with other members of the design, construction and operation co-ordinating at all times with other members of the design, construction and procedures and co-ordinate the outcomes with other team members to ensure the building and systems and co-ordinate the outcomes with other team members to ensure the building and systems and co-ordinate the outcomes within the procurement, design and construction to provide for future de-construction, dismantling and recycling of products, materials and systems. Contribute towards measures within the procurement, design and construction to provide for future de-construction and operation in respect of the design intent eg Black building test The correct function of the life safety systems and undertake regular performance tests to demonstrate the systems continue to meet the fire safety strategy and systems design intent for the HRB The Golden Thread by ensuring all appropriate of information with importance on fire safety and means of escape including parformance and interfaces of life safety systems, the engineering services and building fabric are fully documented and issued to the appropriate parties throughout the building life cycle |



| Competence | | Scope | Examples of evidence | HRB specific criteria | |
|--|--|--|--|---|--|
| and solving engineering problems releval 2. Ider releval assess and m for bui compo system | he extent that it is vant to their role, the icant shall demonstrate they: entify, organise and apply ant standards, testing, ssment, site inspection naintenance procedures uilding materials, products, oonents, assemblies and ms effectively throughout uilding life cycle of HRBs. | British and international product standards Testing standards, procedures, and interpretation of results Good practice specification Product characteristics and performance System, component or assembly testing and performance Prototyping / sample panel and testing Maintenance requirements Maintenance testing and commissioning of building systems and services | Ensuring that the application of the design within HRB fire safety, structural and building life safety systems, results in the appropriate practical outcome Implementing design solutions and taking account of critical constraints. This includes due concern for safety, sustainability, and disposal or decommissioning, within HRB fire safety, structural and building life safety systems Identifying and implementing lessons learned Evaluating existing designs or processes within the development / design / application / integration of HRB fire safety, structural and building life safety systems Actively learning from feedback to improve future design solutions and establish best practice within the development / design / application / integration of HRB fire safety systems | Wherever relevant, applicants shall demonstrate the knowledge and understanding of: Appropriate specification and selection of appropriate materials and products standards as far as they relate to your particular expertise and appreciate those standards, materials and products that have an interface with the design, construction and operational requirements for the life safety systems as designed Appropriate products, components, assemblies and systems will ensure that the building and its life safety systems operate and perform safely throughout the building life cycle of HRBs And ensure that the design of the life safety system respects the methods and requirements for ongoing regular maintenance throughout the life of the building to ensure the correct function of the systems and that they are operational at all times Through inspection, commissioning and testing the quality and suitability of the installed life safety systems | |





VT Annex for

The Incorporated Engineer (IEng) Standard

Incorporated Engineers maintain and manage applications of current and developing technology, and may undertake engineering design, development, manufacture, construction and operation. Incorporated Engineers shall demonstrate:

- The theoretical knowledge to solve problems in established technologies using well proven analytical techniques
- Successful application of the knowledge to deliver engineering tasks or services using established technologies and methods
 Contribution to the financial and planning aspects of projects or tasks and contribution to leading and developing other professional staff
- Effective interpersonal skills in communicating technical matters The ability to specify and operate to safe systems of work and to demonstrate appropriate consideration of the principles of sustainability
- Commitment to professional engineering values

An Incorporated Engineer will be able to demonstrate their competence in all of the areas listed, but the depth and extent of their experience and competence will vary with the nature and requirements of their role. They will demonstrate a level of competence and commitment in each area (AA1–EE5) at a level which is consistent with their specific role. It is to be expected that they will have a higher level of competence in some areas than others and their role may provide limited experience in certain areas. However, they need to demonstrate an understanding of, and familiarity with, the key aspects of competence in all areas as a minimum requirement while demonstrating higher levels of competence in those areas which are critical to their role. Overall, they must demonstrate an appropriate balance of competences to perform their role effectively at Incorporated Engineer level.

The examples of evidence are intended as guidance to help identify activities that might demonstrate the required competence and commitment for Incorporated Engineer registration. They are intended as examples only as the most appropriate evidence will vary with each individual role. The list is not exhaustive and other types of evidence might be valid. There is no requirement to provide multiple examples of evidence for each area of competence, but examples from two or three projects or tasks would be useful.

† It is not expected that applicants will necessarily meet all the listed criteria, but they will be expected to demonstrate competence against a substantial proportion of the scope, using a variety of sources and types of evidence, wherever this is relevant to their role. As part of their continuing professional development (CPD), successful applicants have an obligation to remain alert to any changes in their role or responsibilities and ensure the appropriate underpinning knowledge and understanding are updated accordingly. This is applicable throughout the document where "wherever relevant, applicants shall demonstrate the ability to:" is mentioned.

Applicants shall provide evidence from the HRB-specific criteria when developing their portfolio across the AA1-EE5 competences. Licensees' Professional Review assessors may request further evidence across any or all of the criteria. Same as UK-SPEC-HRB

"Wherever relevant, applicants shall demonstrate the **experience** of: ..."

| ompetence | | Scope | | Examples of evidence | HRB specific criteria |
|--|--|---|---|--|--|
| A. Knowledge and derstanding corporated Engineers shall be a combination of general of specialist engineering lowledge and understanding apply existing and emerging chnology. is competence is about having owledge of the technologies, andards and practices relevant HRBs and the applicant's area practice and having evidence maintaining and applying this owledge. | To the extent that it is relevant to their role, the applicant shall demonstrate that they: 1. Maintain and extend a sound theoretical approach to the application of relevant fire, structural and building life safety systems, principles, and practices throughout the building life cycle of HRBs*. | Fire Science Principles of heat transfer Properties of materials Principles of fire chemistry Principles of fire dynamics Human Behaviour and Evacuation Human behaviour and physiological response to fire Life safety design concepts and practice Fire Safety Design and Specification Fire protection systems Passive fire protection systems Fire detection and alarm systems Fire suppression systems Fire performance of materials Compartmentation and spread of flame Principles of structural fire protection design Commissioning and interrogation of specialist analysis by others | Access and facilities for fire and emergency services Structural Safety Structural design / fixing of cladding / facade at height Secondary fixings specification and design Disproportionate collapse Protection from Falling or Collision Stair safety Guarding / balustrades Balconies Public Health Air quality / ventilation Above ground drainage Water storage Combustion appliances Building Services Electrical safety Mechanical services Fire integrities Building Fabric Interstitial condensation / corrosion Maintenance Glazing and glazing systems | Formal training related to your role in the application of relevant fire, structural and building life safety systems, as well as the principles and practices that are important throughout the building life cycle of HRBs Learning and developing the engineering knowledge needed to work in an industry area or discipline where the application of relevant fire, structural and building life safety systems, principles and practices are required Understanding the current and emerging technology and technical best practice, principles and practices throughout the building life cycle of HRBs in the relevant fire, structural and building life safety systems Developing a broader and deeper knowledge base through research and experimentation in the relevant fire, structural and building life safety systems, principles and practices that are important throughout the building life safety systems, principles and practices that are important throughout the building life safety systems, principles and practices that are important throughout the building life safety systems, principles and practices that are important throughout the building life safety systems, principles and practices that are important throughout the building life safety systems, principles and practices that are important throughout the building life safety systems, principles and practices that are important throughout the building life cycle of HRBs Learning and developing new engineering theories and techniques on the relevant fire, structural and building life cycle of HRBs Recognising, consulting with, updating and applying the golden thread of information on any development / design / application / integration for HRB fire safety, structural and building life safety systems. This will include any related life critical sub-systems | Wherever relevant, applicants shall demonstrate the experience off: Fire science and the principles of fire propagation and control. Further considering the properties and influences of materials and components used in the construction of buildings, inclusive of the interaction of systems and control processes Human factors and the effects of fire / emergencies within buildings. Further understanding how this affects the safe evacuation of the building Current and emerging fire legislation and code compliances with respect to HRBs for building services design, application, and installation Engineering knowledge to understand the current and emerging technologies and technical best practices in the development, design, application, construction and integration of fire safety and evacuation systems, including all life critical sub-systems Engineering theories and techniques in how the building and its systems are likely to react in the event of a fire / emergency. Develop technical solutions that consider the building as a system to ensure the integration and coordination of all fire / life safety systems and interfaces First principles and / or independently peer review commissioning strategies and operating regimes for fire safety and evacuation systems. Including all life critical systems in relation to the building structure and means of escape Developing the access and maintenance procedures Developing maintenance documentation, considering the design principles and operating the design principles and operating and maintenance procedures Developing maintenance more documentation, considering the design, application and integration fire safety and evacuation systems including any related life critical sub-systems Recognising, consulting with, updating and applying the golden thread of information on any development, design, application and integration fire safety and evacuation systems includin |



more specific codes -70, BS EN 81-72, BS EN 81-76, BS 9999, BS n Plan etc

and car rescue requirement

ment simulations

M, understanding of periodic maintenance, fighters lifts and evacuation lifts

g of VT specific BIM framework?

| Competence Scope | | Scope | | Examples of evidence | HRB specific criteria | |
|----------------------------------|--|---|---|---|--|--|
| A. Knowledge and nderstanding | To the extent that it is relevant to their role, the applicant shall demonstrate that they: 2. Use a sound evidence-based approach to problem solving to apply relevant principles and technical standards for fire, structural and building life safety systems throughout the building life cycle of HRBs, and support continuous improvement in building safety | Fire Science Principles of heat transfer Properties of materials Principles of fire chemistry Principles of fire dynamics Human Behaviour and Evacuation Human behaviour and physiological response to fire Life safety design concepts and practice Fire Safety Design and Specification Fire protection systems Active fire protection systems Fire detection and alarm systems Fire suppression systems Fire performance of materials Compartmentation and spread of flame Principles of structural fire protection design Commissioning and interrogation of specialist analysis by others Access and facilities for fire and emergency services | Collaboration and system integration Structural Safety Structural design / fixing of cladding / facade at height Secondary fixings specification and design Disproportionate collapse Protection from Falling or Collision Stair safety Guarding / balustrades Balconies Public Health Air quality / ventilation Above ground drainage Water storage Combustion appliances Building Services Electrical safety Mechanical services Fire integrities Building Fabric Interstitial condensation / corrosion Maintenance Glazing and glazing systems | Conducting technical research and development across all aspects of development / design / application / integration of HRB fire safety, structural and building life safety systems Developing systems and processes for the design / application / integration of HRB fire safety, structural and building life safety systems and considering new or evolving technology Conducting complex and / or non-standard technical analyses on the development / design / application / integration of HRB fire safety, structural and building life safety systems. Developing solutions involving complex or multidisciplinary technology in relation to HRB fire safety, structural and building life safety systems Developing and evaluating continuous improvement systems on HRB fire safety, structural and building life safety systems, including any related life critical sub-systems | Wherever relevant, applicants shall demonstrate the experience of: Contributing to all disciplines forming part of the design, construction and operation teams eg Architect, Structural, Fire Engineers, Specialists, Contractors, Manufacturers, Facilities Managers / Engineers Identifying project or technical requirements and improvements to products, processes, or systems appropriate to the building's fire safety and evacuation systems including all life critical sub-systems Being a leader and contributing to the co-ordinated design and development of engineering solutions suitable to ensure safety in construction, use, maintenance and demolition. Seek checking and approval at all key milestones Implementing and evaluating appropriate techniques, systems, procedures and methods to undertake the engineering design, construction and operation co-ordinating at all times with other members of the design, construction and facilities management teams Identifying and establishing interfaces with static and dynamic life safety systems and co-ordinate the outcomes with other team members to ensure the building and systems are fully compatible and function to the required performance Considering repair, de-construction, dismantling and recycling of products, materials and systems. Implementing measures within the procurement, design and construction to provide for future de-construction of the building and systems Preparing specifications, tenders and contractor proposals to identify technical issues, emerging technologies and potential improvements. The review must consider, contribute and innovate towards the continuation of the golden thread of information appropriate to the building's fire safety and evacuation systems including all life critical sub-systems Implementing suitable testing and commissioning of the life safety systems individually and as an integrated system to demonstrate function and operation in respect of the design inten | |



Explain secondary power supplies, switch over times, provision for Fire Fighters and Evacuation.

Understanding of components, installation, operation, maintenance and replacement procedures

| Competence | Scope |
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| AA. Knowledge and understanding | |
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| xamples of evidence | HRB specific criteria | | |
| · · · · · | Operating the correct function of the life safety systems and undertake regular | - | ——— Fire Fighters / E |
| | performance tests to demonstrate the systems continue to meet the fire safety strategy | 0 | The Fighters / E |
| | and systems design intent for the HRB | | |
| | Maintaining the Golden Thread by ensuring all appropriate of information with importance | | |
| | on fire safety and means of escape including performance and interfaces of life safety | | |
| | systems, the engineering services and building fabric are fully documented and issued to | | |
| | the appropriate parties throughout the building life cycle | | |
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/ Evacuation Modes of operation

| Competence | S | cope | | Examples of evidence | HRB specific criteria |
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| and solving engineering problemsrelevan applicationIncorporated Engineers shall apply appropriate1.Identified appropriateIncorporated Engineers shall apply appropriate1.Identified appropriatetheoretical and practical methods to design, develop, manufacture, construct, commission, operate, maintain, decommission and recycle engineering processes, systems, services and products.operate and processes, and processes and processes and processesThis competence is about theand state | ant to their role, the cant shall demonstrate hey: ntify, review and select priate techniques, dures, and methods to n, construct, commission ecycle building engineering sses, systems, services roducts, in order to y with relevant legislation, ations, statutory guidance tandards of performance able to HRBs. | cluding: onstruction Legislation The Building Act 1984 The Building Safety Act 2022 and Regulations Building regulations Approved documents Approved documents Approved Document 7: Materials and Workmanship Building regulations (procedural) Local acts / enactments Government communications / circular letters Sustainable and Secure Buildings Act 2004 Regulatory Reform (Fire Safety) Order 2005 Construction (Design and Management) Regulations 2007 Management of Health and Safety at Work Regulations Health and Safety at Work Act 1974 | Relevant case law Contract law Related Guidance Authoritative guidance as typically published by institutions, industry bodies and individuals including Collaborative Reporting for Safer Structures UK (CROSS-UK). Royal Institute of British Architects (RIBA) plan of work Building Services Research and Information Association (BSRIA) plan of work Civil, criminal, and case law Contract law Law of agency Employment law The Housing Acts 1985, 1988, 1996, 2004 Housing Health and Safety Rating System Equalities Act 2010 Town and Country Planning Act 1990 Housing and Regeneration Act 2008 Licensing legislation | Identifying projects (or technical improvements to products, processes, or systems that are needed to undertake an engineering task within the development / design / application / integration) in regard to HRB fire safety, structural and building life safety systems Preparing specifications on the development / design / application / integration of HRB fire safety, structural and building life safety systems and taking account of functional and other requirements Establishing user requirements for improvements in HRB fire safety, structural and building life safety systems Reviewing specifications and tenders to identify technical issues and potential improvements, with specific focus on elements concerning the development / design / application / integration of HRB fire safety, structural and building life safety systems. These reviews must also consider, contribute, and innovate towards the continuation of the golden thread of information Conducting technical risk analysis on HRB fire safety, structural and building life safety systems. and identifying mitigation measures Considering and implementing new and emerging technologies within the development / design / application / integration of HRB fire safety, structural and building life safety systems | Wherever relevant, applicants shall demonstrate the experience of: Contributing to all disciplines forming part of the design, construction and operation teams eg Architect, Structural, Fire Engineers, Specialists, Contractors, Manufacturers, Facilities Managers / Engineers Identifying project or technical requirements and improvements to products, processes, or systems appropriate to the building's fire safety and evacuation systems including all life critical sub-systems Being a leader and contributing to the co-ordinated design and development of engineering solutions suitable to ensure safety in construction, use, maintenance and demolition. Seek checking and approval at all key milestones Implementing and evaluating appropriate techniques, systems, procedures and methods to undertake the engineering design, construction and operation co-ordinating at all times with other members of the design, construction and facilities management teams Identifying and establishing interfaces with static and dynamic life safety systems and co-ordinate the outcomes with other team members to ensure the building and systems are fully compatible and function to the required performance Considering repair, de-construction, dismantling and recycling of products, materials and systems. Implementing measures within the procurement, design and construction to provide for future de-construction of the building and systems Preparing specifications and defining operational requirements appropriate to the building's normal and fire safety, ventilation and evacuation systems including all life critical sub-systems Reviewing specifications, tenders and contractor proposals to identify technical issues, emerging technologies and potential improvements. The review must consider, contribute and innovate towards the continuation of the golden thread of information appropriate to the building's fire safety and evacuation systems including all life critical sub- |



| Competence | Scope |
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| BB. Design, development and solving engineering problems | |
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| Implementing suitable testing and commissioning of the life safety systems individually and as an integrated system to demonstrate function and operation in respect of the design intent eg Black building test Operating the correct function of the life safety systems and undertake regular performance tests to demonstrate the systems continue to meet the fire safety strategy and systems design intent for the HRB Maintaining the Golden Thread by ensuring all appropriate of information with importance on fire safety and means of escape including performance and interfaces of life safety systems, the engineering services and building fabric are fully documented and issued to the appropriate parties throughout the building life cycle | Examples of evidence | HRB specific criteria |
|---|----------------------|--|
| | | Implementing suitable testing and commissioning of the life safety systems individually and as an integrated system to demonstrate function and operation in respect of the design intent eg Black building test Operating the correct function of the life safety systems and undertake regular performance tests to demonstrate the systems continue to meet the fire safety strategy and systems design intent for the HRB Maintaining the Golden Thread by ensuring all appropriate of information with importance on fire safety and means of escape including performance and interfaces of life safety systems, the engineering services and building fabric are fully documented and issued to |



| Competence | Scope | Examples of evidence | HRB specific criteria |
|---|--|---|---|
| BB. Design, development and solving engineering problems To the extent that it is relevant to their role, the applicant shall demonstrate that they: 2. Contribute to the design and development of engineering solutions through application of relevant standards, testing, site inspection, assessment and maintenance procedures for building materials, products, components, assemblies and systems effectively throughout the building life cycle of HRBs. | British and international product standards Testing standards, procedures, and interpretation of results Good practice specification Product characteristics and performance System, component or assembly testing and performance Prototyping / sample panel and testing Maintenance requirements Maintenance testing and commissioning of building systems and services | Identifying and agreeing appropriate research methodologies on the development / design / application / integration of HRB fire safety, structural and building life safety systems Investigating a technical issue within the development / design / application / integration of HRB fire safety, structural and building life safety systems. Then identifying potential solutions, and determining the factors needed to compare them Identifying and conducting physical tests or trials on HRB fire safety, structural and building life safety systems Conducting technical simulations or analysis with regards to the development / design / application / integration of HRB fire safety, structural and building life safety systems Preparing, presenting, and agreeing design recommendations, with appropriate analysis of risk on the development / design / application / integration of HRB fire safety, structural and building life safety systems. Then taking account of quality, safety, reliability, accessibility, appearance, fitness for purpose, cost, security (including cyber security), intellectual property constraints and opportunities, as well as environmental impact | Wherever relevant, applicants shall demonstrate the experience of: Assessing the appropriateness of the specification and selection of appropriate materials and products standards as far as they relate to your particular expertise and appreciate those standards, materials and products that have an interface with the design, construction and operational requirements for the building's life safety systems Implementing new and emerging technologies appropriate to fire safety and evacuation systems including all life critical sub-systems. Be up to date with the current and emerging legislation around HRBs Assessing and the appropriateness of the selected products, components, assemblies and systems including identifying and conducting physical tests or trials to ensure that the building and its life safety systems operate and perform safely throughout its life cycle Preparing, presenting, and agreeing design recommendations, with appropriate analysis considering, quality, safety, reliability, accessibility, appearance, fitness for purpose, cost, security (including cyber security) intellectual property constraints and opportunities and |



| Competence | | Scope | |
|--|--|---|---|
| BB. Design, development and solving engineering problems | To the extent that it is relevant to their role, the applicant shall demonstrate that they: | Design solutions applicable across the life cycle of HRBs | |
| | 3. Implement design solutions for equipment or processes and contribute to their evaluation. | | • |
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| Examples of evidenceHRB specific criteriaEnsuring that the application of the designWherever relevent, applicants shall demonstrate the experience of: |
|--|
| Ensuring that the application of the design Wherever relevent, applicants shall demonstrate the experience of: |
| within HRB fire safety, structural and building life safety systems, results in the appropriate practical outcome limplementing design solutions and taking account of critical constraints. This includes due concern for safety, sustainability, and disposal or decommissioning, within HRB fire safety, structural and building life safety systems. Identifying and implementing lessons learned Evaluating existing designs or processes within the development / design / application / integration of HRB fire safety, structural and building life safety systems. Then identifying faults or potential improvements including risk and life cycle considerations. Actively learning from feedback to improve future design solutions and establish best practice within the development / design / application / integration of HRB fire safety systems. Actively learning from feedback to improve future design solutions and establish best practice within the development / design / application / integration of HRB fire safety systems. Actively learning from feedback to improve future design of HRB fire safety systems. Actively learning from feedback to improve future design of HRB fire safety systems. Actively learning from feedback to improve future design of HRB fire safety systems. Actively learning from feedback to improve future design of HRB fire safety systems. Actively learning from feedback to improve future design of HRB fire safety systems. Actively learning from feedback to improve future design of HRB fire safety systems. Actively learning fire safety systems. Activ |





VT Annex for

The Chartered Engineer (CEng) Standard

Chartered Engineers develop solutions to complex engineering problems using new or existing technologies, and through innovation, creativity and technical analysis.

Chartered Engineers shall demonstrate:

- The theoretical knowledge to solve problems in new and established technologies and to develop new analytical techniques
- Successful application of the knowledge to deliver innovative products and services or taking technical responsibility for complex engineering systems
- Responsibility for the financial and planning aspects of projects, sub-projects or tasks
- Leadership and development of other professional staff through management, mentoring or coaching
- Effective interpersonal skills in communicating technical matters
 Understanding of the safety and sustainability implications of their work, seeking to improve aspects where feasible
 Commitment to professional engineering values

A Chartered Engineer will be able to demonstrate their competence in all of the areas listed, but the depth and extent of their experience and competence will vary with the nature and requirements of their role. They will demonstrate a level of competence and commitment in each area, (AA1–EE5), at a level which is consistent with their specific role. It is to be expected that they will have a higher level of competence in some areas than others and their role may provide limited experience in certain areas. However, they need to demonstrate an understanding of, and familiarity with, the key aspects of competence in all areas as a minimum requirement while demonstrating higher levels of competence in those areas which are critical to their role. Overall, they will demonstrate an appropriate balance of competences to perform their role effectively at Chartered Engineer level.

The examples of evidence are intended as guidance to help identify activities that might demonstrate the required competence and commitment for Chartered Engineer registration. They are intended as examples only as the most appropriate evidence will vary with each individual role. The list is not exhaustive and other types of evidence might be valid. There is no requirement to provide multiple examples of evidence for each area of competence, but examples from two or three projects or tasks would be useful.

† It is not expected that applicants will necessarily meet all the listed criteria, but they will be expected to demonstrate competence against a substantial proportion of the scope, using a variety of sources and types of evidence, wherever this is relevant to their role. As part of their continuing professional development (CPD), successful applicants have an obligation to remain alert to any changes in their role or responsibilities and ensure the appropriate underpinning knowledge and understanding are updated accordingly. This is applicable throughout the document where "wherever relevant, applicants shall demonstrate the ability to:" is mentioned.

Applicants shall provide evidence from the HRB-specific criteria when developing their portfolio across the AA1-EE5 competences. Licensees' Professional Review assessors may request further evidence across any or all of the criteria. Same as UK-SPEC-HRB

"Wherever relevant, applicants shall demonstrate the **ability** to: ..."



hallenges of transitioning from ' Do Not Use Lift of a Fire" to active use during evacuation.

r more specific codes 1-70, BS EN 81-72, BS EN 81-76, BS 9999, BS on Plan etc

re Fighter and Evacuation Modes of Operation

h and car rescue requirement

ment simulations Ind Automatic Rescue

ng of VT specific BIM framework?

| npetence | Scope | Examples of evidence HRB | B specific criteria |
|--|--|--|--|
| Knowledge and Erstanding To the extent relevant to the applicant sha that they: 2. Address and solutions to con challenging buil problems with s of risk. Apply kn understanding of principles and te standards to co integrate these design. | Principles of heat transfer Properties of materials Principles of fire chemistry Principles of fire dynamics Secondary fixings specification and design Disproportionate collapse Protection from Falling or Collision Stair safety Guarding / balustrades | development across all aspects of development / design / application / integration of HRB fire safety, structural and building life safety systems Developing systems and processes for the design / application / integration of HRB fire safety, structural and building life safety systems and considering new or evolving technology Conducting complex and / or non-standard technical analyses on the development / design / application / integration of HRB fire safety, structural and building life safety systems Developing solutions involving complex or multidisciplinary technology in relation to HRB fire safety, structural and building life safety systems Developing and evaluating continuous Ider Ider Ider Ider Sector Com Vention Com Vention Com Vention Com Vention Com Com Vention Ider Assistive Com Com Vention Ider Assistive Com Com Vention Com Com<!--</th--><th>erever relevant, applicants shall demonstrate the ability to: lentify the building regulations and appropriate fire safety standards and recognised uidance in respect of life safety systems lentify system boundaries and interfaces with other life safety and all building systems. evelop, specify and construct appropriate control and monitoring strategy to ensure the peration and function of the system seese and select suitable use of passive fire protection and how they may be impacted y the installation of services within the building. Select appropriate passive protection tethods / systems to maintain fire integrity of the building onsider the resilience of all Building Services water, electrical, VT and smoke and entilation systems for firefighting purposes and assess potential risks to loss of supply nd develop a strategy to ensure that critical life safety systems are protected with econdary systems where appropriate stablish the levels of risk and develop cause and effect solutions for all multidisciplinary ystems covering rated fire safety and evacuation systems onsider and develop a strategy for the testing and commissioning of the life safety ystems both individually and also as an integrated system to demonstrate function and peration in respect of the design intent eg Black building test lentify the operation and understand the correct function of the life safety systems be ble to demonstrate regular performance tests and housekeeping to ensure the systems continue to meet the fire safety strategy and systems design intent</th> | erever relevant, applicants shall demonstrate the ability to: lentify the building regulations and appropriate fire safety standards and recognised uidance in respect of life safety systems lentify system boundaries and interfaces with other life safety and all building systems. evelop, specify and construct appropriate control and monitoring strategy to ensure the peration and function of the system seese and select suitable use of passive fire protection and how they may be impacted y the installation of services within the building. Select appropriate passive protection tethods / systems to maintain fire integrity of the building onsider the resilience of all Building Services water, electrical, VT and smoke and entilation systems for firefighting purposes and assess potential risks to loss of supply nd develop a strategy to ensure that critical life safety systems are protected with econdary systems where appropriate stablish the levels of risk and develop cause and effect solutions for all multidisciplinary ystems covering rated fire safety and evacuation systems onsider and develop a strategy for the testing and commissioning of the life safety ystems both individually and also as an integrated system to demonstrate function and peration in respect of the design intent eg Black building test lentify the operation and understand the correct function of the life safety systems be ble to demonstrate regular performance tests and housekeeping to ensure the systems continue to meet the fire safety strategy and systems design intent |



ondary power supplies, switch over times, r Fire Fighters and Evacuation.

ling of components, installation, operation, e and replacement procedures

ropriate VT system capacity for the respective RB with reference to the building fire evacuation

| Competence | Scope | Examples of evidence | HRB specific criteria |
|---|--|---|--|
| BB. Design, development and solving engineering problems Chartered Engineers shall apply appropriate theoretical and practical methods to the analysis and solution of engineering problems. This competence is about the ability to apply engineering knowledge effectively and efficiently to the individual tasks which need to be undertaken in the applicant's role in relation to HRBs. | of Construction Legislation Related Guidance of • The Building Act 1984 Authoritative guidance as typically published by institutions, industry • The Building Safety Act 2022 bodies and individuals including and Regulations • Building ragulations Collaborative Reporting for Safer | Identifying projects (or technical improvements to products, processes, or systems needed to undertake an engineering task within the development / design / application / integration) in regard to HRB fire safety, structural and building life safety systems. Preparing specifications on the development / design / application / integration of HRB fire safety, structural and building life safety systems, and taking account of functional and other requirements. Establishing user requirements for improvements in HRB fire safety, structural and building life safety systems. Reviewing specifications and tenders to identify technical issues and potential improvements, with specific focus on elements concerning the development / design / application / integration of HRB fire safety, structural and building life safety systems. These reviews must also consider, contribute, and innovate towards the continuation of the golden thread of information. Conducting technical risk analysis on HRB fire safety, structural and building life safety systems, and identifying mitigation measures. Considering and implementing new and emerging technologies within the development / design / application / integration of HRB fire safety, structural and building life safety systems | Wherever relevant, applicants shall demonstrate the ability to: Understand, respect and appreciate the contribution and roles of all disciplines forming part of the design, construction and operation teams eg Architect, Structural, Fire Engineers, Specialists, Contractors, Manufacturers, Facilities Managers / Engineers Identify project or technical requirements and improvements to products, processes, or systems appropriate to the building's fire safety and evacuation systems including all life critical sub-systems Demonstrate leadership and contribute to the co-ordinated design and development of engineering solutions suitable to ensure safety in construction, use, maintenance and demolition Develop, implement and evaluate appropriate techniques, systems, procedures and methods to undertake the engineering design, construction and operation co-ordinating at all times with other members of the design, construction and facilities management teams Identify and establish interfaces with static and dynamic life safety systems and coordinate the outcomes with other team members to ensure the building and systems are fully compatible and function to the required performance Consider repair, de-construction, dismantling and recycling of products, materials and systems. Implementing measures within the procurement, design and construction to provide for future de-construction and evacuation systems including all life critical subsystems Prepare specifications, tenders and contractor proposals to identify technical issues, emerging technologies and potential improvements. The review must consider, contribute and innovate towards the continuation of the golden thread of information appropriate to the building's fire safety and evacuation systems including all life critical subsystems Incertifications, tenders and contractor proposals to identify technical issues, emerging technologies and potential improvements. The review must consider, con |



| Competence | Scope |
|--|-------|
| BB. Design, development and solving engineering problems | |
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| xamples of evidence | HRB specific criteria |
|----------------------|--|
| Examples of evidence | HRB specific criteria Identify the operation and understand the correct function of the life safety systems and undertake regular performance tests to demonstrate the systems continue to meet the fire safety strategy and systems design intent for the HRB Maintain the Golden Thread by ensuring all appropriate of information with importance on fire safety and means of escape including performance and interfaces of life safety systems, the engineering services and building fabric are fully documented and issued to the appropriate parties throughout the life cycle of HRBs |
| | |



| Competence | Scope | Examples of evidence | HRB specific criteria |
|--|--|--|---|
| BB. Design, development and solving engineering problems To the extent that it is relevant to their role, the applicant shall demonstra that they: Undertake research, analysis and development to define, refine and apply relevant standards, testing, assessment, site inspection and maintenance procedures for building materials, produc components, assemblies and systems effectively throughou the building life cycle. | Product characteristics and performance System, component or assembly testing and performance Prototyping / sample panel and testing Maintenance requirements Maintenance testing and commissioning of building systems and services | Identifying and agreeing appropriate research methodologies on the development / design / application / integration of HRB fire safety, structural and building life safety systems Investigating a technical issue within the development / design / application / integration of HRB fire safety, structural and building life safety systems. Then identifying potential solutions, and determining the factors needed to compare them Identifying and conducting physical tests or trials on HRB fire safety, structural and building life safety systems Conducting technical simulations or analysis with regards to the development / design / application / integration of HRB fire safety, structural and building life safety systems Preparing, presenting, and agreeing design recommendations, with appropriate analysis of risk on the development / design / application / integration of HRB fire safety, structural and building life safety systems. Then taking account of, quality, safety, reliability, accessibility, appearance, fitness for purpose, cost, security (including cyber security), intellectual property constraints and opportunities, as well as environmental impact | Research agree appropriate research methodologies, fully understand and assess the appropriateness of the specification and selection of appropriate materials and products standards as far as they relate to your particular expertise and appreciate those standards, materials and products that have an interface with the design, construction and operational requirements for the building's life safety systems Consider and implement new and emerging technologies appropriate to fire safety and evacuation systems including all life critical sub-systems. Be up to date with the current and emerging legislation around HRBs Assess and be satisfied the appropriateness of the selected products, components, assemblies and systems including identifying and conducting physical tests or trials to ensure that the building and its life safety systems operate and perform safely throughout its life cycle Conduct technical simulations or analysis with regards to the development, design, application and integration of fire safety and evacuation systems, including any related life critical sub-systems Prepare, present, and agree design recommendations with appropriate analysis considering, quality, safety, reliability, accessibility, appearance, fitness for purpose, cost, security (including cyber security) intellectual property constraints and opportunities, and |



| Competence | | Scope | Ex | xa |
|--|--|---|----|----------------------------------|
| BB. Design, development and solving engineering problems | To the extent that it is relevant to their role, the applicant shall demonstrate that they: | Engineering solutions applicable across the building life cycle of HRBs | | wit life pra |
| | 3. Can implement engineering tasks and evaluate the effectiveness of engineering solutions. | | | Imp acc due dis fire |
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| Examples of evidence | HRB specific criteria |
|--|--|
| Ensuring that the application of the design within HRB fire safety, structural and building life safety systems, results in the appropriate practical outcome Implementing design solutions and taking account of critical constraints. This includes due concern for safety, sustainability, and disposal or decommissioning, within HRB fire safety, structural and building life safety systems Identifying and implementing lessons learned Evaluating existing designs or processes within the development / design / application / integration of HRB fire safety, structural and building life safety systems. Actively learning from feedback to improve future design solutions and establish best practice within the development / design / application / integration of HRB fire safety systems. | Wherever relevant, applicants shall demonstrate the ability to: Ensure the application of the design is inclusive of all products, components and systems to implement the fire safety strategy and safety in design, construction and operation for the building Identify the constraints of the building, develop and implement fire safety design solutions that consider safety and wellbeing of occupants, sustainability, resilience and future proof in operation, decommissioning and disposal Evaluate existing building systems and installation within the designs or processes during construction, commissioning and operation. Make corrective actions and implement lessons learnt, propose alternative solutions within the development of design, application and integration of fire safety and evacuation systems, including any related life critical sub-systems Actively learn from reviews and or audits in operation including feedback from the operators and occupants of the building on its processes and systems. Implement and integrate corrective measures and or development of future design solutions to improve and build on best practice within the development, design for the application and integration of fire safety and evacuation systems, including any related life critical sub-systems |



Glossary

| BSI 8670 | Relates to 'Built environment – Core criteria for |
|------------------------|---|
| | building safety in competence frameworks – |
| | Code of practice' See: <u>www.bsigroup.com</u> |
| Building Safety | Gives residents and homeowners more rights, |
| Act 2022 (BSA) | powers, and protections resulting in safer |
| | homes. It overhauls existing regulations and |
| | makes clear how residential buildings should be |
| | constructed, maintained, and made safe. See: |
| | www.legislation.gov.uk |
| Building life | This includes selecting appropriate techniques, |
| cycle | procedures and methods to design, construct, |
| | commission, operate, maintain, refurbish |
| | / repurpose, decommission, demolish and |
| | recycle. These can apply to building engineering |
| | processes, systems, services and products. This |
| | ensures compliance with relevant legislation, |
| | regulations, statutory guidance and standards of |
| | performance applicable to HRBs. |
| Building Safety | They oversee the safety and standards of all |
| Regulator (BSR) | buildings, helping and encouraging the built |
| | environment industry and building control |
| | professionals to improve their competence. |
| | Leading implementation of the new regulatory |
| | framework for high-rise buildings. |
| | See: |
| | www.hse.gov.uk/building-safety/regulator.htm |
| | |

| CROSS | Collaborative Reporting for Safer Structures UK (CROSS-UK) is a confidential reporting system which allows professionals working in the built environment to report on fire and structural safety issues. These are published anonymously to share lessons learned, create positive change, and improve safety. |
|---------------------------------------|---|
| Higher-risk building (HRB) | For a building to qualify as a higher-risk building it will meet either the height (18 metres or higher) or storeys (seven storeys or more) threshold, and will contain at least two residential units, or be a care home or hospital, as specified in the regulations set out at: www.legislation.gov.uk |
| Joint Competent Authority (JCA) | Consists of local authority building standards, fire and rescue authorities, and the Health and Safety Executive. Proposed by Dame Judith Hackitt in her review of building regulations and fire safety. |
| Occupant | An individual who occupies a house, office, vehicle on a regular basis. The occupant does not extend to living in or use the space as their own. |
| Owner/ homeowner | The legal owner or leaseholder of a property or individual dwelling. |

| UK-SPEC HRB | The UK Standard for Professional Engineering |
|-------------|--|
| | Competence and Commitment Contextualised |
| | for Higher-Risk Buildings UK-SPEC HRB. |
| | The document sets out the competence and |
| | commitment requirements for registration as |
| | an EngTech, IEng or CEng. UK-SPEC HRB is |
| | one of the Standards the Engineering Council |
| | publishes, along with UK-SPEC, AAQA, AHEP, |
| | and the ICTTech Standard. |
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