

Candidate Name

Professional Review for CEng (MCIBSE)

CIBSE Number XXXXX

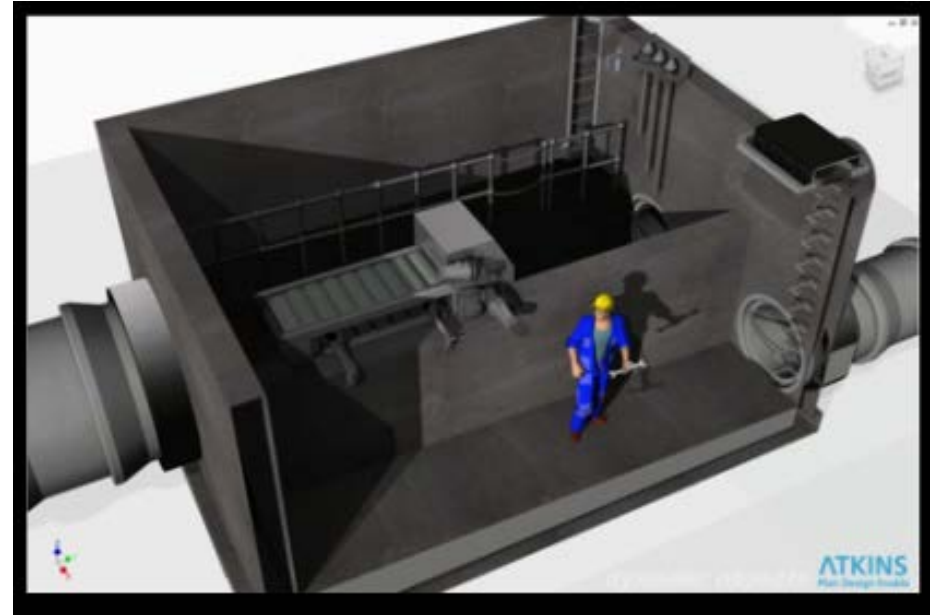
November 2016

My Route So Far

- Academic: Accredited Mechanical Engineering degree
Masters obtained July 2012 at University.
- Professional:
 - In 2012 started at (Rail) as Mechanical Engineer
 - January 2013 started as Building Services Engineer

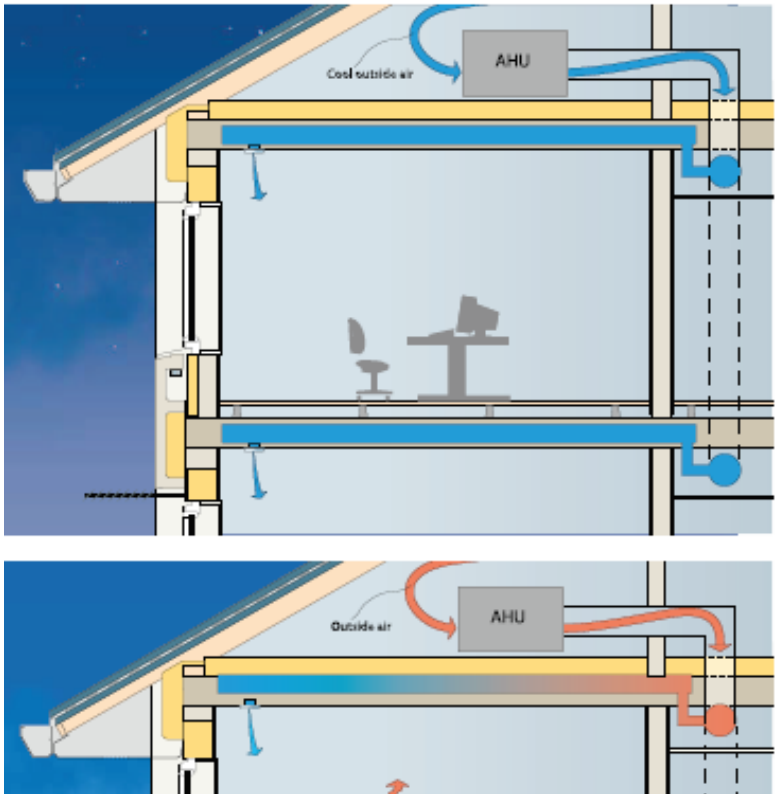
A1 – Maintain and extend sound theoretical approach in enabling the introduction and exploitation of new and advancing technology

- New Software
 - Introduced a new process to improve operational practices
 - Broadened my knowledge of engineering codes, standards and specifications
 - Identified new areas for development and research
- Innovation Planning
- Tours



A2 – Engage in the creative and innovative development of engineering technology and continuous improvement systems

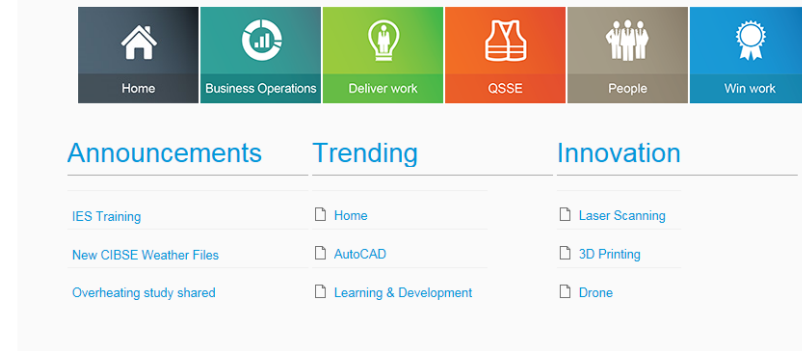
- Vocational College -London
 - Participated/contributed to multi-disc. team meetings with other professions
 - Evaluated proposals
 - Read publications
 - Critically compared my own work with others' work
- Mixed Use Development-London
- Obsolescence Planning



B1 – Identify potential projects and opportunities

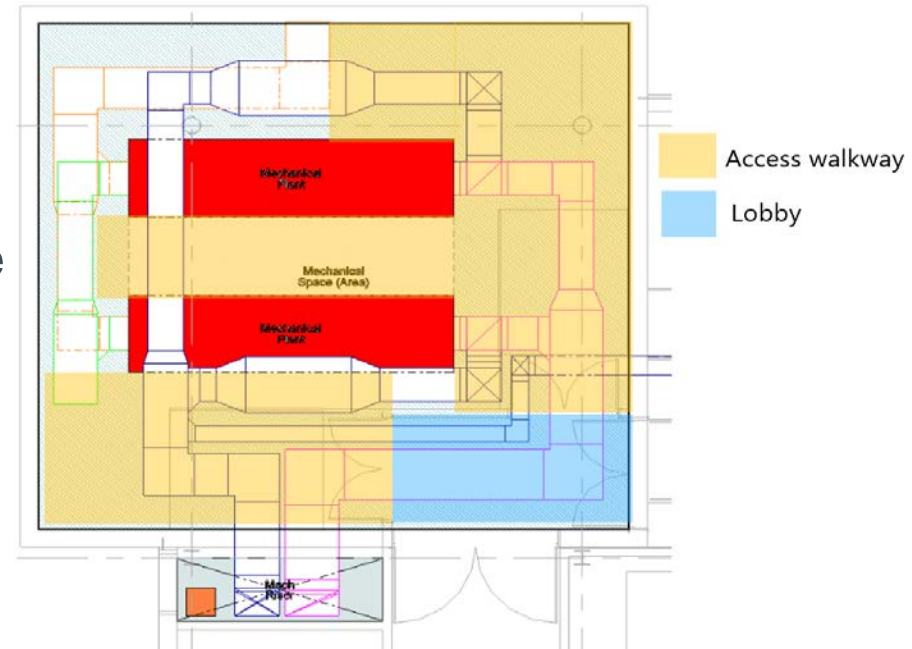
- Building Services Network- SharePoint Site
 - Participated in activities, discussions and peer group reviews to enhance knowledge and understanding
 - Understood and applied organisational objectives and business plans identifying engineering opportunities
 - Participated in proposals and presentations and contributed to technology transfer, investigative thinking and critical evolution
- Crossrail2 App
- Promoting Engineering

Building Services Network



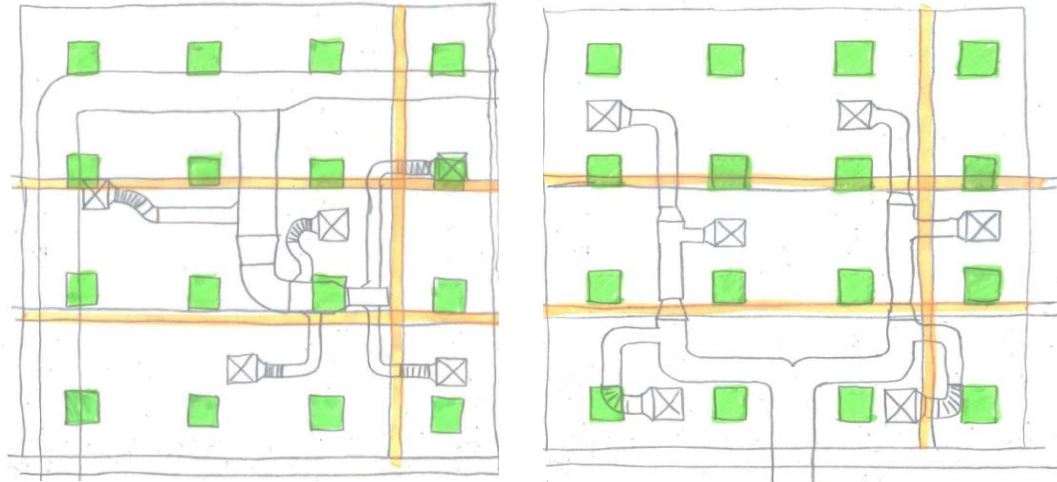
B2 – Conduct appropriate research, and undertake design and development of engineering solutions

- New Visitor Centre
 - Established and agreed the basis for the engineering solutions
 - Integrated relevant manual and computerised techniques to achieve practical and innovative solutions
 - Engaged with others to obtain specialist input
- Industrial Building



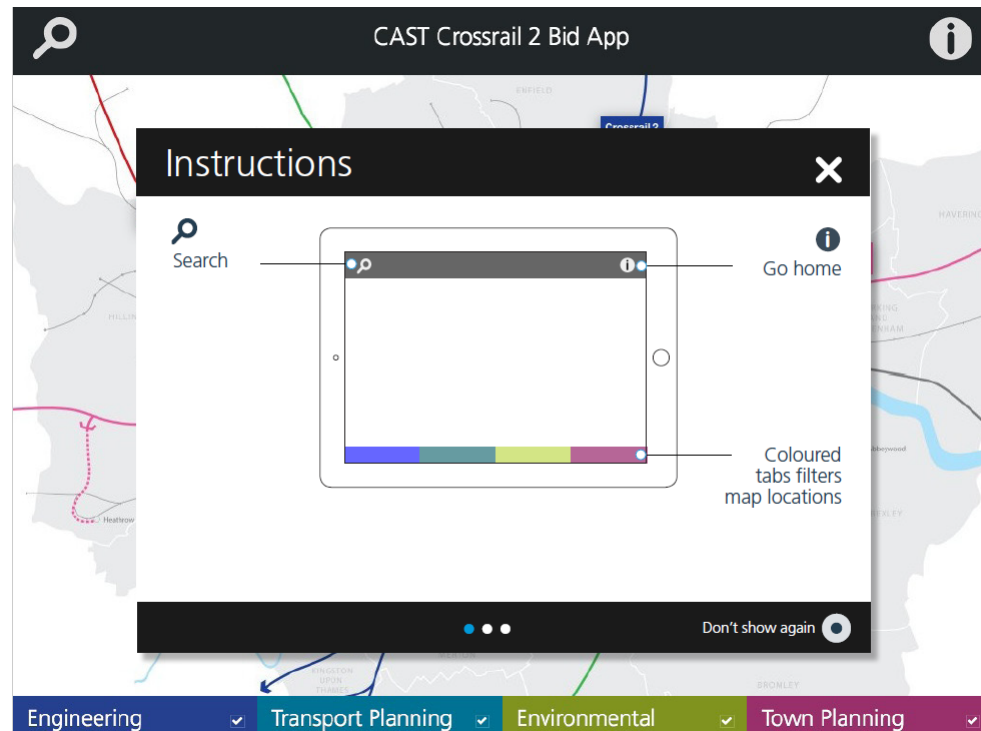
- Industrial Building

- Utilised previous experiences
- Read manufacturers' literature and worked with manufacturers
- Evaluated solutions
- Vocational College



C1 – Plan for effective project implementation

- Bid App
 - Ensured resources were available in accordance with the delivery programme
 - Prepared and monitored the fee/spend
 - Managed and reported progress
- Visitor Centre
- Vocational College



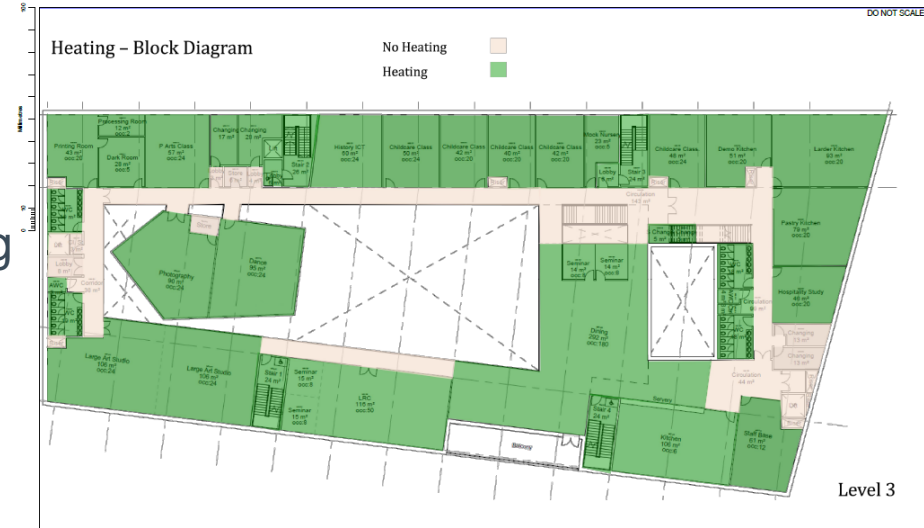
C2 – Plan, budget, organise, direct and control tasks, people and resources

- Project Management of a Series of Water Projects
 - Organised and lead teams
 - Coordinated project activities
 - Took responsibility and control
 - Managed the balance between quality, cost and time
- Visitor Centre
- Vocational College

| | C | D | E | F | G | H | I | J | K | L | |
|--|---------|-----------|----------|---|-----------------------------------|---|-----------|---------------------------------------|-------------------|-------------------|----------|
| | | | WBS £ | Estimate at Completion (Budget+Change) £ | Actual to Date 26/08/2016 £ | Accrual/Forecast September/2016 £ | VOWD £ | Cash Flow £ (Three months Look Ahead) | | | Comments |
| | | | Total | Total | Total | Total | Total | October Total | November Total | December Total | |
| | PROJECT | Open/Clos | (a) | (b) | (c) | (d) | (e=c+d) | | | | |
| | | | | | | | | | | | |

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

- Vocational College
 - Exhibited leadership skills
 - Responsible for supervising others
 - Prepared the scope and workflows for individuals
 - Contributed to coaching and training team members
 - Continually develop team spirit
- Building Services Network
- Educational Guidance Rewrite



C4 – Bring about continuous improvement through quality management

- Building Services Network
 - Established and participated in company quality schemes
 - Demonstrated how quality schemes have been adhered to and improved
 - Participated in peer reviews
- Confidential Client
- Mixed Use Development-Energy Strategy



QA Templates

Type

Name

Description : Document (6)

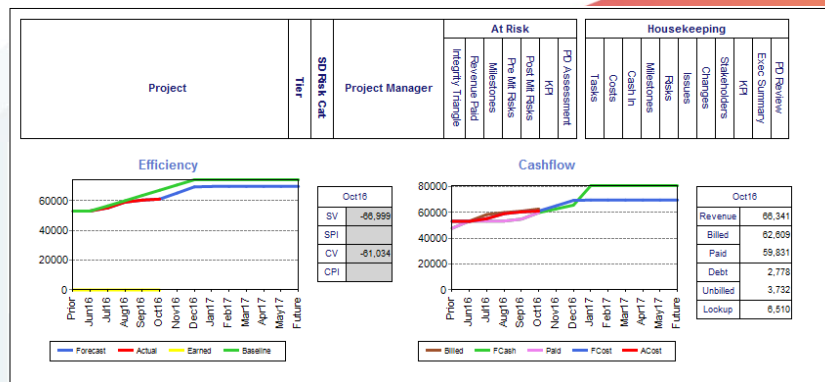
| | |
|--|--|
| | REPORT APPROVAL CHECKLIST |
| | CALCULATION CHECK SHEET |
| | Document review sheet |
| | Minor Works Document review sheet Template |
| | HEVACOMP CALC APPROVAL CHECKLIST |
| | AMTECH CALCULATION APPROVAL CHECKLIST |

- Educational Guidance Writing
 - Prepared agendas and minutes
 - Identified and developed formal and informal communication channels between stakeholders
 - Prepared and managed handovers, closing and control documents
 - Participated in meetings and produced reports
- Visitor Centre
- Building Services Network

Building Bulletin 101
Ventilation of School Buildings



- Training Project Managing in new Software
- Obtained involvement of different departments in preparing the final solution
- Developed practical skills in presentations
- Attended seminars
- Challenged thoughts and expectations of concepts and proposals.
- Mixed Use Development-Energy Strategy
- Visitor Centre



- STEM talks
 - Used appropriate communication styles in a range of professional situations from small to large groups
 - In formal/informal situations
 - Demonstrated interpersonal skills
 - Effectively managed own time
 - Demonstrated collaboration
- Tours and evening CPDs



- CIBSE code of conduct
 - Examined, digested and I abide by the code of conduct
 - Understand and exercise reasonable professional skill and care
 - Promote my profession
 - Encourage development in others
 - Maintain professional competence
- Atkins training
- Promote engineering



The Code of Professional Conduct

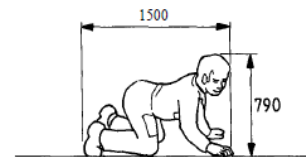
Members of the Institution, in all grades, are required to maintain the highest standards of professional conduct.

All members must order their conduct in accordance with this Code. Members engaged in work outside the United Kingdom shall comply as far as is possible with this Code and with any established standards of conduct that exist in that country.

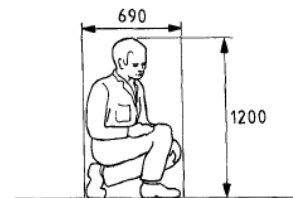
Members shall:

- At all times so order their conduct as to uphold the dignity and reputation of their profession and to safeguard the public interest in matters relevant to the art, science and practice of Building Services Engineering.
- Exercise professional skill, care and diligence to the best of their ability and discharge their duties and responsibilities with fidelity, and with proper regard for professional standards.
- Actively maintain, and where possible encourage others to maintain, their professional competence through systematic improvement and broadening of their knowledge and skill in accordance with Institution guidelines on Continuing Professional Development as published from time to time.
- Reject bribery and all forms of corrupt behaviour, and make positive efforts to ensure others do likewise.
- Avoid, where possible, real or perceived conflict of interest and disclose to their employer or client any significant interest in another company, firm or person carrying on any business which may benefit directly or indirectly from their work.
- When acting on behalf of the institution declare their position if faced with a conflict of interest, accurately represent the views of the institution, and refrain from promoting their own or their employers' interest.

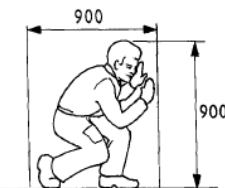
- Visitor Centre
 - Identify and take responsibility for my responsibilities for H&S
 - Ensured the systems satisfy the H&S requirements
 - Undertaken formal HS&E training
- Vocational College
- Inductions and Site visits



(c) Crawl

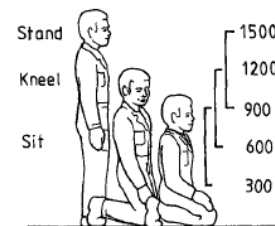


(d) Squat

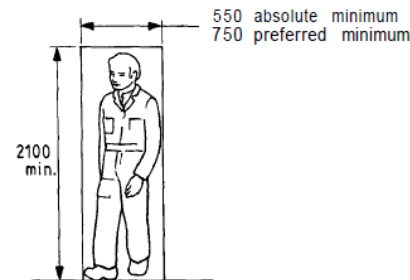


(e) Stoop

All dimensions are in millimetres.



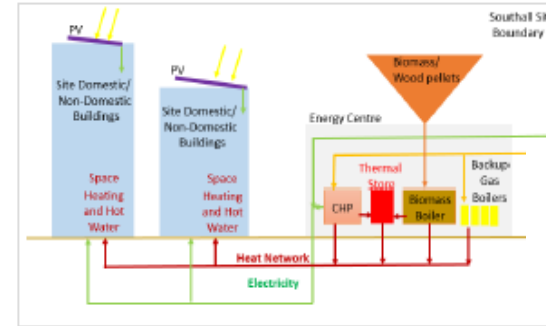
(f) Maintenance reach levels



(g) Passageway

E3 – Undertake engineering activities in a way that contributes to sustainable development

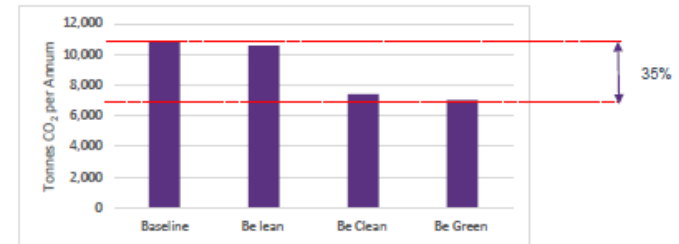
- Mixed Use Development- Energy Strategy
- Operated and acted responsibly
- Understood and secured stakeholder involvement in sustainable design
- Actively promoted the profile and implementation of designs that embrace principles of sustainability
- Actively engaged with reducing carbon emissions
- Talks and Tours



Option 2 consists of:

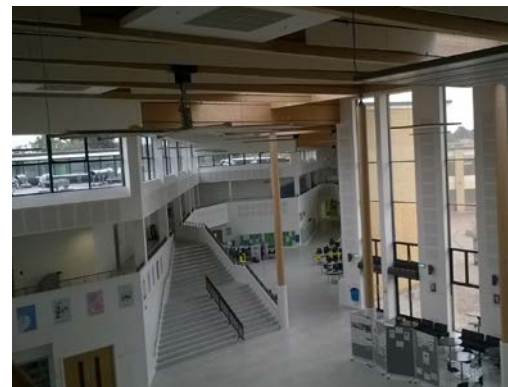
- 2MW CHP
- 2MW Biomass
- 100m³ thermal storage
- Additional fuel store for biomass
- 7,980 m² PV

Figure 7-7 Option 2 Energy Hierarchy

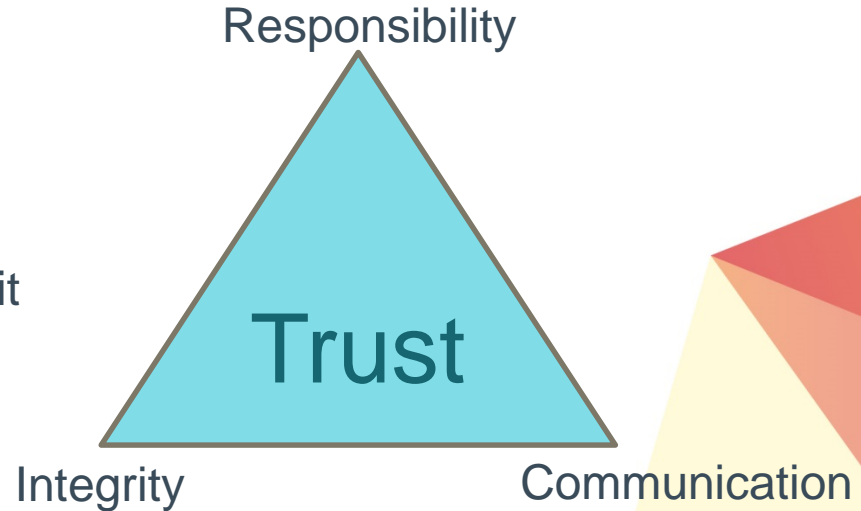


E4 – Carry out continuing professional development necessary to maintain and enhance competence in own area of practice

- Carried out/attended CPD talks and tours
- Assisted others with their own CPD
- Undertaken reviews of own development needs
- Maintained evidence



- Atkins code of conduct
- Understand and operate within the Statement of Ethical Principles (Engineering Council)
- Recognise and operate within the limit of my knowledge and competence





Thank You for Listening