LCIBSE EngTech Work Experience Report

[redacted]

Word Count: 2,077

December 2015

Work experience report – LCIBSE demonstration

See below for details of how I have gained necessary competencies suitable for the CIBSE Licentiate grade, what I describe below is a fraction of the technical responsibilities and personal experiences gained as a result of my progression through craft into a design role: (I have included competencies in red)

Company: [redacted]
Role: Mechanical Pipefitter/Welder
Date: 2006-2011

My technical responsibilities included understanding and interpreting working drawings to produce installations that met client requirements and consultant specifications.

Part of a small team so tasks were varied and challenging. Broadly ranging from install through to commission. Gave me a real insight into how the construction process works and the nature of contracting and project management.

An important skill I acquired throughout this phase of my career was the ability to use problem-solving skills to ensure systems could integrate within buildings, i.e space constraints. An example could be liaising with a Project Manager when plant does not fit into a designated area or when unforeseen clashes with duct and pipework occur. I found working efficiently with other trades ensured swift resolution to any issues encountered on site. (A1, A2, B2)

Company: [redacted]
Role: Director
Date: 2011-2013

During 2011 I became self-employed, to adapt to the changing economic environment the construction industry found itself in. Again, this change in role gave me a good base with which to progress my career.

My responsibilities ranged from tendering for projects to team meetings with Clients and other construction professionals. Being self-employed is certainly a steep learning curve; I was also responsible for the Health & Safety for the works carried out. It was then I acquired a CSCS card to comply with HSE requirements and carried out detailed Risk Assessments & Method Statements as per the requirements of Main Contractor's. Further to this I also completed a Level 3 Health & Safety qualification as part of my BTEC. (C1, C2, C3, D1, D2, E2)

frictional pressure losses to a minimum so as the external resistance of the fan (which had already been delivered) was still below a certain tolerance. (A1, A2,)

Throughout my time at Heathrow I carried out all my correspondence via email, so as to ensure I had a good audit trail, which is essential. I had all instructions from supplier's and the Main Contractor in writing; this allowed me to stay organized when managing contracts and the project program. A good working relationship also ensured reps were willing to carry out CPD's regularly. I would also ask as many colleagues as possible to attend - by email. (D1, D2, E4)

I was also responsible for giving 'Toolbox Talks' to all of SPIE's site operatives, outlining the requirements they each had for the Health and safety for themselves and others whilst working on site. This also included me intervening when operatives were not working under safe conditions; I found that this dynamic approach ensured best working practices. (D1, D2, E1)

Company: [redacted]
Role: Mechanical Design Technician Engineer
Date: 2015 - Current

My latest career move has taken me to a design office in Cambridgeshire. I have worked for [redacted] for nine months now and am responsible for producing efficient, accurate and effective designs for many different types of buildings. The client base is diverse and I have had the opportunity of working on some interesting projects.

Again, the team at [redacted] is small and this has given me exposure of carrying out many different design tasks.

I carry out my responsibilities according to my ethical code. Compliance to the company's ethical code is importance. At [redacted] I am encouraged to advise our Client's correctly and without bias. Despite any decisions I make having an effect on the company's overall fee. I am employed as a professional and as such conduct myself in a suitable manner, in line with the CIBSE code of conduct. (E3, E4, E5)

Working at [redacted] has allowed me to use the technical modules I am learning at University within the workplace.

I am also aware of the limits of my technical capability and have a strong personal, ethical code of practice. I comply with CIBSE's code of conduct, act honestly and do not knowingly mislead anyone in relation to engineering issues. (E1, E3, E5)

- Surveying the roof (available) area, membrane and suitability.
- Producing Payback Period calculations. (A1, A2, E3)
- Using BS 7671, and informing the design team if external lighting and fire alarm sounders were required.
- Producing Stage C drawings and giving indicative locations for Inverter's and cable tray runs.
- Communicating efficiently and effectively with various members of the design team to provide all relevant and important information to the Client.

CIBSE Home Counties North West – YEN Liaison Officer

I am actively involved in the HCNW region and was appointed YEN Liaison Officer in April 2015. (E1, E4)

I thoroughly enjoy attending events and other CIBSE based activities. My involvement with the regions has given me invaluable insight into how important CIBSE is to our industry both socially and environmentally. (E1, E4)

Further to this I aided the HCNW chair in composing a prestigious 'Future Cities' debate, which included guest speakers such as the Technical Director and Past President of CIBSE. (E1, E4, E5)

[redacted] Flow Chart
December 2015