AREAS FOR FURTHER DEVELOPMENT

T LEVEL: DESIGN, SURVEYING AND PLANNING FOR CONSTRUCTION

T Level learners will have covered a broad spectrum of knowledge and understanding of the concepts, theories and principles relevant to the T level in the core content. They will then specialise and cover the knowledge and skills required in that occupational specialism, putting this into practise during the industry placement. There may be some areas a learner will need to further develop in a workplace environment following a T Level to reach full competence, such as behaviours. Following engagement with employers, industry experts and providers, we have captured below what these areas for development may be following a T Level. This will depend on the learner and an initial assessment. The RPL guidance gives further details.

Occupational Specialism: Civil Engineering
Standard: Civil Engineering Technician

Aspects for further development

Skills

Further practical application of all skills:

S1 Apply appropriate civil engineering principles, techniques, and methods, including mathematical, scientific, and technical know-how, to civil engineering and the construction process

S2 Apply key principles, techniques and methods of data and technical information collection, analysis, and evaluation to support the delivery of civil engineering models, designs, and technical solutions

S3 Operate appropriate software packages for data gathering and analysis, such as Computer Aided Design (CAD) or Building Information Modelling (BIM), to create technical drawings, models and designs using relevant conventions and engineering terminology

S4 Apply statutory health, safety and welfare policies, procedures, and regulations in the civil engineering environment, using risk management processes, procedures, and documentation

S5 Support and contribute to the production or modification of civil engineering technical solutions in accordance with relevant industry standards, regulations, and procedures and codes of practice

S6 Apply environmental policies and sustainable principles in civil engineering projects, recognising the need to reduce carbon use, lower emissions and plan for wider sustainability

S7 Plan, carry out and manage own work in line with quality assurance, recognising the wider implications to customer needs, and within cost and resource limitations

S8 Consider equality, diversity and inclusion in the delivery of civil engineering projects

S9 Apply document control processes and procedures using the approved processes, maintaining quality compliance when creating or amending engineering documentation

S10 Communicate using appropriate methods for the audience, and incorporate relevant and appropriate terms, standards, and data

S11 Apply ethical principles to civil engineering projects, including the secure use of data and information

S12 Plan, undertake and review their own professional competence, regularly updating and reviewing their CPD to improve performance

Additional Learning

Further Practical Application of knowledge and skills to reach full occupational competence. They will need further support to apply their knowledge and skills, particularly in non-routine situations to develop their:

- Quality of skill
- Pace
- Adaptability
- Independence and focus

- Appropriate workplace behaviours

Behaviours.