**GUIDANCE FOR ENGTECH CANDIDATES ON DEMONSTRATING COMPETENCE**

The following are examples of evidence/activities, drawn from work commonly undertaken by Highways & Transportation technicians, which could demonstrate achievement of the EngTech Standard as set out in the Engineering Council’s UK Specification for Professional Engineering Competence (UK-SPEC). You do **not** need to provide evidence for all of these activities. The reviewers appreciate that your evidence will vary according to your job role, but they will expect you to demonstrate competence in each of the objectives.

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| **Section A**: **Use engineering knowledge and understanding to apply technical and****practical skills** |
| A1 Review and select appropriate techniques, procedures and methods to undertaketasksA2 Use appropriate scientific, technical or highway/transportation engineering principles |
| Examples of evidence:· Knowledge of design/construction manuals· Knowledge of methods of measurement· Knowledge of specifications· Knowledge of asset management techniques and maintaining asset registers· Preparing drawings using traditional or contemporary techniques· Knowledge of modelling packages and applications· Understanding of the principles of data collection and validation· Knowledge of relevant guidance, policy, legislation and Codes of Practice |

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| **Section B: Contribute to the design, development, manufacture, construction,****commissioning, operation or maintenance of products, equipment, processes,****systems or services at work**. |
| B1 Identify problems and apply diagnostic methods to identify causes and achievesatisfactory solutionsB2 Identify, organize and use resources effectively to complete tasks, with considerationto cost, quality, safety and environmental impact |
| Examples of activities:· Commissioning/decommissioning transport infrastructure· Designing/installing highway & transportation features e.g. Traffic calming,pedestrian crossing facilities, street lighting etc.· Traffic management· Signing/lining (Traffic Regulation Orders)· Laboratory work (materials testing)· Accident analysis and road safety audits· Traffic modelling and analysis· Data management and interpretation· Application of national statistical data in a local context· Asset management· Procurement and evaluation of contractsExamples of evidence:· Engineering drawings· Desk top studies· Model runs· Specifications· Risk method statements· Spreadsheets· Work instructions· Procurement documents· Technical calculations· Road safety audit reports |

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| **Section C: Accept and exercise personal responsibility for seeing a process****through to completion. (You may include activity that is not associated with your job****e.g. voluntary work or helping to run a sports or social club).** |
| C1 Work reliably and effectively without close supervision to the appropriate codes ofpracticeC2 Accept responsibility for work of self and othersC3 Accept, allocate and supervise technical and other tasks |
| Examples of evidence:· Minutes of meetings· Site notes and instructions· Site surveys· Compliance with quality management systems· Variation orders· Programmes of work/programming works· Understanding of, and working to, time and budget constraints· Understanding of, and working to, project briefs· Specifications, drawings and reports· Appraisals undertaken by your employer· Written feedback from clients or members· Tool box talks |

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| **Section D**: **Used effective communication and interpersonal skills.** |
| D1 Use oral, written and electronic methods for communication of technical and otherinformationD2 Work effectively with colleagues, clients, suppliers and the public |
| Examples of evidence:· Use of correct engineering terminology· Understanding of delegated responsibilities· Awareness of contractual obligations |

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| **Section E**: **Personal commitment to an appropriate code of professional conduct,****recognising obligations to society, the profession and the environment** |
| E1 Comply with Professional Codes of PracticeE2 Manage and apply safe systems of workE3 Undertake engineering work in a way that contributes to sustainable developmentE4 Carry out CPD to ensure the required competence level is maintainedE5 Exercise responsibilities in an ethical manner |
| Examples of evidence:· Knowledge of CIHT’s Code of Conduct· Awareness of legal obligations (duty of care)· Awareness of environmental management systems· Understanding and application of current safety requirements relevant to yourown work (e.g. Health & Safety at Work Act 1974, COSHH, CDM 2007, CSCScard, New Roads & Street Works Act 1991, Permits to Dig, Working in ConfinedSpaces)· Understanding and application of risk assessment methods and actions taken tominimise risk to health, safety, society or the environment· Environmental awareness· Active engagement with CIHT at a local level· CPD record, including reflection on learning |