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| **Qualifications** | Foundation Degree of higher in a relevant discipline (Collision Investigation/Physics/Engineering) or equivalent qualification  | Not Essential but Desirable |
| **Knowledge of** | the importance and relevance of health and safety at scenes and that this may vary depending on the scenethe practices involved in securing, controlling and managing a scene.the processes involved in gathering information, putting together theories to help the investigation, and reconsidering theories in the light of new findings and informationthe importance of a structured, systematic methodological approach to collision investigationthe fundamental principles of physics the factors which may contribute to collisions including road surfaces, weather and human factors the procedures relating to the recovery of items from collision scenes including the importance of continuity and integrity of evidence and chain of custodythe processes involved in identifying, selecting, recording and recovering physical material from scenesmaking sure everything which might provide evidence at a scene is handled, secured and labelled to comply with the needs of the law, the investigation and the organisation’s quality assurance requirements (including knowledge and understanding of the importance of maintaining exhibit continuity)the processes involved in weighing up evidence and interpreting results and their meaning, with others involved in the investigationthe wider forensic sciences sectorrequirements for validation of methodsthe requirements of the Criminal Justice System | **Essential****Essential****Essential****Essential****Essential****Essential****Essential****Essential****Essential****Essential****Desirable****Desirable****Essential** |
| **Knowledge and Practical Experience of**  | vehicle dynamicsfundamental principles of physicscollision mechanics (impact theories)time-distance analysis (kinematics calculations) and the determination of coefficient of drag experiments and calculationsvehicle technology, especially concerning steering, braking, rolling, passive and active safety systemslimitation of computer simulation techniquesvehicle damage measurements (crush) and analysiseffect on collisions between pedestrian and cyclist with vehiclesHandling and processing of digital CCTV evidence. Distance and timing measurements from CCTV and associated scene to calculate speed of vehicle.tachograph analysisreporting methods, findings and results to relevant parties in the investigation and the court | **Essential****Essential****Essential****Essential****Essential****Essential****Essential****Desirable****Essential** |
| **Awareness of :** | Familiarity with the current regulations relating to Road Traffic Act and the broader forensic and criminal justice arena, such as* Criminal Procedure Rules and Practice Directions
* Police and Criminal Evidence Act, 1984 Codes of practice
* The Forensic Science Regulator, Codes of Practice and Conduct for Forensic Science Providers and Practitioners in the Criminal Justice System
* ISO 17020
* ILAC G19
* Disclosure - Experts' Evidence, Case Management and Unused Material, May 2010: Guidance Booklet for Experts
* Highway Code
 | **Essential****Essential****Desirable****Desirable****Desirable****Essential****Essential** |
| **Experience**  | At least 3 years activity in collision investigationsAuditing experience.At least 1 year’s practical experience of holding a position of responsibility for Collision Investigations.Practical experience/knowledge of working in an organisation operating an effective management system, preferably holding accreditation. | **Desirable****Desirable****Essential****Desirable** |
| **Training** | Evidence of on-going professional development. | **Essential** |
| **Aptitude/Skills** | Ability to communicate with staff and management at all levels.Ability to form and lead a team.Good team player yet comfortable working alone.Good interpersonal skills.Ability to observe, analyse, recognise and arrive at conclusions speedily.Good listening skills. Ability to digest written and verbal information quickly and to form sound judgements. Organised and well presented.Ability to plan and to meet tight deadlines.Ability to reflect upon and learn from experiences.Able to handle conflict. Good organiser and time manager.Ability to report accurately and concisely both orally and in writing.Ability to give empathetic feedback.Computer literate | **Essential (All)** |
| **Disposition** | Professional approach and self-motivated.A flexible approach and willing to accept new solutions.Resilient and able to cope under pressureEnthusiastic and energetic.Assertive but approachable, empathetic and friendly.Ability to adapt to the clients’ culture/dispositionAbility to command respect, but not closed mind or arrogant. A willingness to share knowledge.Attention to detail. | **Essential (All)** |
| **Practical and Intellectual Skills** | Agile inquiring mind.Quick but sound thinker.Able to keep information gained through assessments in confidence - discreet | **Essential****Essential****Essential** |
| **Circumstances****(Personal)** | Holds a valid driving licence.Able to provide own car, which is insured for business.Willing and able to travel by other effective and appropriate means of transport including aeroplane when required.Willingness to travel within the UK.Willing to travel overseas.Flexibility in working hours.Resident in the UK, with easy access to travel routes.  | **Essential****Essential****Essential****Essential****Desirable****Essential****Desirable** |
| **Legal Requirements** | Work permitPassportNational Insurance Number | **Essential****Essential****Essential** |