Lesson 1.4 - Technology

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| Lesson 1.4 Technology | | Duration: 90 minutes |
| **Resources Required:**   * PC/Laptop loaded with software versions compatible with the prepared materials * PowerPoint presentation * Projector and display screen * Internet access (if available) * Whiteboard * Whiteboard pens (at least 2 each of blue, black, red and green) * 2 Flipcharts with adequate paper * Student notepaper and pens. * Blu tack or a similar product to allow for paper to be affixed to the walls temporarily | | |
| **Session Aim:**  This session provides information about technology that will be encountered by Judges and prosecutors during their work and which is used by criminals to commit crime and law enforcement to detect it. The aim of the session is to enable the audience to gain sufficient knowledge about technology for them to function more effectively in their roles. | | |
| **Objectives:**  By the end of the lesson the students will be able to:   * Recognise the common components of a digital device & understand their role * Describe what the internet is, how someone connects to it & what possible traces can be left in doing so * List some internet services & applications which may they may encounter in their role as prosecutors & judges * Give examples of issues the dark web could bring to criminal prosecution | | |
| **Trainer Guidance**  This session is intended to provide trainers with a framework for developing training material to be delivered as part of a wider programme. It cannot be comprehensive as technology changes so rapidly that any detailed technical specifications would be out of date almost as soon as the document is published. Ensuring that Judges and prosecutors have sufficient understanding of technical issues as they relate to matters before them is essential to the fair running of any judicial system. This session provides an overview of the relevant aspects of technology and its relevance to the criminal justice system. A PowerPoint presentation is provided as a resource for trainers to use if considered appropriate.  This session provides information about technology that will be encountered by Judges and prosecutors during their work and which is used by criminals to commit crime and law enforcement to detect it. The Powerpoint presentation seeks to aid in presenting the technologies to the delegates. However, it should only serve as a template and needs to be adopted by the trainer to fit the target audience, the schedule and the information relevant to his/her country. The trainer should look to use practical and real world examples and demonstrations to emphasise the learning.  The time allocated to this session has, in this version, been reduced from 180 minutes to 90 minutes, so it will be necessary for the trainer to adapt the materials to meet the needs of each audience and these may be different, for example depending on the legal system in the country or countries where the training is taking place. As mentioned, this material provides a framework upon which the trainer should prepare their material to be delivered, in accordance with the lesson objectives.  The times listed below are indicative of the amount of time to be allocated to each section of the lesson. Of necessity, this will mean that some parts will be dealt with across more than one of the three allocated sessions.   * Introduction and opening (Agenda and Session objectives) (5 Minutes) * Part 1 – Computer parts & functions (15 minutes) * Part 2 – Internet parts & how it came to be (20 Minutes) * Part 3 – Connecting to the internet (15 Minutes) * Part 4 – Internet services & applications (15 Minutes) * Part 5 – Deep web, anonymity & the dark web (15 minutes) * Summary (5 minutes)   The slide pack for this presentation is extensive – and there is guidance in the Lesson Content section below about what is essential and which could be removed/hidden if necessary | | |
| **Lesson Content** | | |
| **Slide Numbers** | **Content** | |
| 1 to 4  Mandatory | The opening slides are the introduction to the session and include the Agenda and the session objectives. The trainer should ensure that these are amended where it has been decided to exclude sets of slides or subject areas. These slides are a gentle introduction to the subject matter and clearly identify that the pace of technology change was beyond the thinking of some of the experts of the day. This was an introduction to computer hardware that has now been removed from this course. The electronic evidence pre read for the course provides a detailed breakdown of digital devices and it is no longer necessary for them to be included here. | |
| 5 to 33  Important | This section seeks to build a computer virtually and explain what makes up a digital device & what use the parts have. It deals with hardware & software and show the commonality between devices whilst making the delegate aware.  Trainers may choose to describe the component parts in their own way but this set of slides with builds will provide an overview of the technologies – providing where necessary the comparison between traditional computers & smaller, more mobile devices  The section finishes with an introduction to operating systems and software including virtual environments at a very basic level | |
| 34 to 55  Mandatory | These slides deal with the history of the Internet and are a simple introduction to the subject. Trainers may wish to substitute their own information to describe the history  They introduce networks and connectivity before moving into the wider internet with a brief history and a look at the main parts which will referred to in criminal activities and the investigation of them | |
| 56 to 68  Mandatory | This section works through the mechanics of making a connection to the internet and introduces the delegate to some of the resources that can be used to find out information once someone has made that connection.  Trainers may wish to substitute their own information to describe the connection and investigation | |
| 69 to 102  Important | This section looks at internet services and applications which may come to notice in criminal matters. The trainer may wish to substitute their own information or examples to describe these  Some slides have internet statistics. It is the responsibility of the trainer to ensure that these statistics are up to date and where possible relevant to the audience – however they were correct at the point of writing the slides (August 2020). | |
| 103 to 116  Mandatory | This section introduces the delegates to the Deepweb, anonymity and the Darkweb and will allow the delegates to gain an understanding of the technologies and terminologies they may encounter in investigations of this type.  The trainer may wish to substitute their own information or examples to describe these or to perform online demonstrations where the connectivity allows | |
| 117 to 118  Mandatory | The final section provides the opportunity for the trainer to reflect on what has been taught in the lesson and ensure that the objectives have been met. It also provides the delegates with the same opportunity and to raise any issues that may require clarification. | |
| **Practical Exercises**  No practical exercises are envisaged for this particular session as there is no guarantee that the level of technology and Internet access to deliver such exercises will be available at all venues.  Trainers may in the future seek to supplement to learning by adding exercises, where the training is delivered in an environment where the facilities are suitable. | | |
| **Assessment/Knowledge Check**  No specific knowledge check in addition to that listed above is currently envisaged for this course. No official assessment has been requested. | | |