S345: Set up an IT system 3

Overview: Select and connect up an IT system with a range of hardware, removable storage media and a communication service safely and successfully and is able to help others to do so. This standard is imported from the **e-skills IT Users suite.**

Links: Communication; IT

Specific skills:
- Checking
- Negotiating
- Using technology
- Evaluating
- Organising
- Managing resources
- Planning
- Monitoring
- Problem solving

Performance Indicators	Knowledge & Understanding
Select and connect up a personal computer safely with associated hardware and storage media to meet needs 1. Select and connect up the components of an IT system safely, including any peripheral devices and storage media **Select and connect IT system to a communication service successfully to meet needs** 2. Select and connect communication hardware safely to an IT system 3. Select and connect to a communication service from an IT system **Install and configure operating system and application software for use** 4. Configure the user interface to meet needs 5. Install, set up and configure virus protection and other security systems and software 6. Establish a backup routine for data and system 7. Install, set up and configure application software to meet needs **Check that the IT system and communication service are working successfully** 8. Select and run suitable tests to make sure that the system and communication service are working successfully 9. Establish procedures for recovery in the event of system faults or failure 10. Respond to faults and error messages and use help and troubleshooting facilities to determine and take appropriate action	A. Explain the reasons for choosing different system components and how to avoid any compatibility issues between hardware and software B. Explain any health and safety issues associated with setting up an IT system C. Explain the characteristics of IT systems that affect performance D. Explain the reasons for choosing a communication service E. Explain what effect variations in data transmission speed may have F. Explain the factors which influence choice of Internet Service Providers G. Explain what security precautions need to be addressed for the system to be used securely online by several users H. Explain the benefits and risks of using disk partitions or other backup locations I. Explain what system tests and communication tests are needed and why J. Explain the range of help and troubleshooting facilities available to solve problems