We deliver highly practical training for biomedical engineers relating to the safety, servicing and performance verification of a range of equipment including electro-cardiovascular, ventilation and anaesthesia.

Course aim

The aim of this course is to provide clinical engineers with the underpinning knowledge of network systems and cybersecurity principles to be able to, interrogate, test and repair interconnected medical devices.

Objectives

- Identify a network and associated network infrastructure, topology, interfacing protocols and data transmission
- State the cyber security principles and explore the threats to interconnected medical devices
- Distinguish between Software as a Medical Device, (SaMD) and Software in a Medical Device, (SiMD)
- Identify the relevant standards applied to healthcare data, (OSI Reference model, HL7)
- Complete network cable manufacture, repair, and testing
- Build and test a basic network

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