The RCT Evidence Standards - Engineering

These standards have been developed to support the route to equivalence. They reflect the standards that have been applied throughout the life of register and have been derived from competences contained within approved training route criterion. Using the engineering standards in conjunction with the existing Scopes of Practice provides a mechanism to facilitate rigorous assessments. The RCT Management Panel are able to quality assure technologists via this route and determine the depth and breadth of their knowledge and skills. Only when successfully evidencing these standards through a portfolio can The RCT Management Panel be satisfied that Technologists are able to carry out their role safely and effectively.

A. Safe Working Practice

1. Provide evidence that you are competent with a range of generic skills, including infection control, basic life support and adhering to health and safety regulations.
2. Demonstrate an understanding of the application of health and safety and risk management principles to all aspects of the Clinical Technologists role.
3. Perform a range of risk assessments appropriate to your role.
4. Observe and perform a range of equipment management processes.
5. Demonstrate an understanding of how the equipment life cycle applies to the role of the clinical technologist.
6. Observe and assist Clinical Technologists in a range of environments adhering to safety restrictions and regulations.
7. Perform health and safety risk assessments in accordance with standard operating procedures.
8. Produce and critically review an incident report applying the relevant processes and procedures.
9. Plan for and teach users, carers and other healthcare staff within the Clinical Technology environment.
10. Produce appropriate technical and user documentation.

B. Equipment Management, Quality Management Systems and Processes

1. Demonstrate an understanding of equipment management and quality management system, to support all aspects of equipment management activities.
2. Apply equipment management processes to assist in the management of rental and loan equipment.
3. Perform equipment management procedures in accordance with standard operating procedures.
4. Operate equipment, performing calibration and equipment quality assurance/control processes in accordance with standard operating procedures.

5. Perform audit and checks on the work of third party service providers.

C. Equipment acceptance, installation, PPM and decommissioning

1. Demonstrate an understanding of the procurement process from working with the user to define the user specification through to the procurement process adhering to local processes.
2. Identify and make the appropriate choice of equipment for a desired application.
3. Complete equipment acceptance procedures and, where appropriate, additional installation procedures for a range of medical devices managed by Clinical Technologists.
4. Perform a range of electrical safety tests and calibration checks and adjustments on medical devices with and without patient applied parts and demonstrate an understanding of the process.
5. Perform PPM procedures, equipment modification activities and control checks and adjustments on a range of medical devices in accordance with standard operating procedures.
6. Recognise and identify common artefacts, hazards, interference and faults that are associated with medical devices and suggest and/or perform corrective action.
7. Perform repair procedures on a range of medical devices.
8. Perform assessments, interventions and equipment handovers in a safe manner while undertaking appropriate infection control techniques and other health and safety best practices.
9. Decommission and dispose of equipment in a safe and appropriate manner according to local procedures and all relevant legislation, regulations and guidance.
10. Perform quality control procedures and review and interpret quality control results.

D. Equipment Design and Safe Use

1. Teach/train healthcare staff how to operate equipment, use accessories and the correct storage of a range of medical devices and consumables.
2. Perform measurements, checks and tests required in order to prescribe or design technology solutions.
3. Specify, design and facilitate the manufacture of new devices or modification to an existing device.
4. Assess the solution identified against the outcome requirement, financial viability, time constraints and resource implications.

E. Good Scientific Practice

1. Adhere to relevant standards of professional practice as defined in Good Scientific Practice. Demonstrate that you have read, understood and comply with this document in all aspects of work.