

The RCT Evidence Criteria – Radiation Physics

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 competencies contained within approved training route criterion. 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 mandatory training e.g. infection control and basic life support
2. Demonstrates an understanding and application of health and safety and risk management in all aspects of the Clinical Technologists role.
3. Demonstrates an understanding of, and works within all relevant legislation to their role including departmental local rules.
4. Perform health and safety risk assessments (including radiation risk assessments for ionising and non-ionising radiation) in accordance with standard operating procedures.
5. Demonstrates an understanding of radiation incident reporting.
6. Demonstrates effective communication skills and team working.
7. Demonstrates a professional approach to all aspects of the Clinical Technologists role.
8. Observes and assists in a range of procedures within the Radiation Physics discipline e.g. Radiation equipment quality assurance and optimisation, patient dosimetry and personnel monitoring. Adhering to standards of professional practice throughout.
9. Assists in giving instructions to patients and colleagues regarding radiation hazards, doses and restrictions.
10. Demonstrates reflective practice as part of the learning process.

B. Equipment Management

1. Assists in the procurement of equipment, accessories or consumables.
2. Demonstrates the use of an equipment inventory system.
3. Performs cleaning/decontamination of equipment.
4. Performs routine equipment quality control checks and review and interpret results.
5. Performs a range of fault finding and first line user maintenance.
6. Demonstrates knowledge of radioactive source management, transport and disposal.
7. Demonstrates an understanding of quality management systems.
8. Perform equipment life-cycle procedures as an equipment user.

C. Radiation Transport and Dosimetry

1. Performs source checks and completes all relevant paper work prior to transport.
2. Perform 'leak' tests, review results and take appropriate action.
3. Perform contamination checks and maintain appropriate records.
4. Assist in the issuing, processing and reporting of personal dosimetry across a range of dosimeters.
5. Assist with the record keeping associated with personal dosimetry.

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D. Radiation Physics/Protection

1. Performs routine QA checks and radiation surveys (including environmental monitoring) on a range of facilities, equipment and associated secondary equipment.
2. Assists with commissioning checks and critical examinations on a range of equipment and associated secondary equipment.
3. Assist with routine testing of radiation protection equipment.
4. Performs a full range of radiation measurements using appropriate measuring devices.
5. Perform the calibration of a range of diagnostic and contamination measuring devices in accordance with standard operating procedures. Review and interpret results making appropriate adjustments where necessary produce a range of reports relevant to the activity.
6. Assist in the provision of personnel dosimetry devices.
7. Assist in patient dosimetry/dose surveys and dose optimisation for a range of equipment.

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.

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