

COGIRMI06

Set up complex ionising radiation measurement instrumentation



Overview

This unit covers the competence required to set up complex ionising radiation measurement instrumentation safely and effectively.

This unit deals with the following:

- 1 Set up complex ionising radiation measurement instrumentation

During this work you must take account of the relevant operational requirements and safe working practices AS THEY APPLY TO YOU.

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Performance criteria

- You must be able to:*
- P1 work safely at all times, complying with health and safety and other relevant regulations, legislation and guidelines
 - P2 prepare to set up the instrument in accordance with guidance information
 - P3 take measurements and make adjustments in accordance with guidance documentation
 - P4 maintain the integrity of calibration equipment and materials
 - P5 take suitable precautions to prevent damage to the instrumentation being set up
 - P6 identify whether the adjustments deliver the desired performance
 - P7 adhere to the relevant quality standards
 - P8 report the findings of the task in the appropriate format
 - P9 maintain accurate records in the required format

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Knowledge and understanding

You need to know and understand:

- K1 the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing ionizing radiation and their implications for your area of work
- K2 the nature, characteristics, hazards and risks of ionising radiation and the technology in the instrumentation used to take measurements
- K3 the functioning of the instrument and its components
- K4 types of equipment relevant to the task and their application, capabilities and limitations
- K5 environmental controls (e.g. temperature, humidity)
- K6 sources of guidance information relevant to instrument set up
- K7 the actions that may be appropriate in response to unplanned or developing events and imperatives
- K8 the objectives of the set up and the basis on which it should be designed and conducted
- K9 the intended use of the instrument
- K10 the relationship between the adjustments made and the instrument response
- K11 how to derive and interpret instrument responses
- K12 the desired characteristics and potential hazards of the set up being undertaken
- K13 the characteristics and nature of any hazardous materials with which you are working
- K14 when and how you should publish your findings

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Additional Information

Scope/range

- 1 technical, legal and cost implications: safety; quality
- 2 type of test: routine; non-routine
- 3 resources: equipment; consumables; services; work environment
- 4 parameters: delivering desired effects; managing adverse/emergent effects; adjustments; problems and anomalies
- 5 guidance information: publications; informal sources
- 6 information: complete and correct; incomplete and incorrect; complete and incorrect; incomplete and correct

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Suite Ionising Radiation Measurement Instrumentation

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