

COGIRMI13

Carry out complex repairs of ionising radiation measurement instrumentation



Overview

This unit covers the competence required to carry out repairs to complex ionising radiation measurement instrumentation safely and effectively and to diagnose faults.

This unit deals with the following:

- 1 Carry out complex repairs of 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 and guidelines
 - P2 obtain the information needed to enable you to make the diagnosis
 - P3 follow the relevant procedures to carry out the required repair
 - P4 ensure that the tools used are fit for purpose
 - P5 carry out the repair activities in the specified sequence and in an agreed timescale
 - P6 take suitable precautions to prevent damage to components, tools and equipment during repair
 - P7 ensure that the repaired component meets the specification
 - P8 diagnose faults and determine the feasibility of repair
 - P9 identify the nature of the repair to be conducted
 - P10 identify or develop suitable repair procedures
 - P11 report any instances where the repair activities cannot be completed
 - P12 label, store or discard any removed components in accordance with organisational procedures
 - P13 complete the relevant repair and configuration records accurately and pass them on to the appropriate authority
 - P14 dispose of waste materials in accordance with organisational procedures
 - P15 adhere to the relevant quality standards
 - P16 maintain the requirements of confidentiality at all times

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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 ionising radiation and their implications for your area of work
- K2 the relevance of personal protective equipment (PPE)
- K3 the functioning, hazards and risks of the ionising radiation measurement instrumentation covered by the repair programme
- K4 the actions to be taken in response to an unplanned event
- K5 waste streams and component disposal procedures
- K6 reporting lines and procedures
- K7 the suitability of different diagnostic techniques (e.g. split, cold checking, slaving etc)
- K8 when components and instruments are beyond economical repair
- K9 the tools and equipment to be used and how to use them
- K10 instrument operation and care and control procedures
- K11 component repair techniques as prescribed by the relevant documentation
- K12 configuration management procedures

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Additional Information

Scope/range

- 1 resources: human; facilities; financial; tools and equipment; time
- 2 technical, legal and cost implications: safety; quality
- 3 types of repair: undocumented; routine; non-routine; fault diagnosis
- 4 fault complexity: documented critical non-specified faults; undocumented critical non-specified faults

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Suite Ionising Radiation Measurement Instrumentation

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