

## SFHRT19

# Carry out non-routine repairs to custom made devices



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### Overview

This standard covers the actions required to carry out non-routine repairs to a custom made device. It requires an assessment of the condition of the device to enable the appropriate corrective action to be identified and carried out. The standard is relevant to any rehabilitation technician engaged in the repair of custom made devices. Users of this standard will need to ensure that practice reflects up to date information and policies.

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### Performance criteria

- You must be able to:*
- P1 confirm device against the job sheet/order and identify when the device was made and who it was made for
  - P2 ensure that the device and components are sufficiently clean to allow you to work on them safely and report to the relevant person for decision:
    - P2.1 on any device that needs to be returned to the service user for decontamination
    - P2.2 on any device that may be decontaminated in-house
  - P3 assess the device and make a justifiable decision as to whether:
    - P3.1 it is repairable
    - P3.2 it is beyond repair
  - P4 report any devices beyond repair to the relevant person in line with organisational
  - P5 handle devices in a manner which minimises the likelihood of losing or mixing components with components from other devices
  - P6 form into the correct relationship those components of the device which it is possible to reassemble and fix them together
  - P7 replace any components that are not capable of being reused from the damaged device
  - P8 assemble the components and fix them securely together
  - P9 use an appropriate method to achieve the optimum repair in line with organisational requirements and manufacturers specification
  - P10 confirm that the repaired device:
    - P10.1 complies with the prescription
    - P10.2 is clean
    - P10.3 is free of defects
  - P11 use working methods and systems throughout the process which:
    - P11.1 promote health and safety
    - P11.2 reduce the risk of infection and contamination
    - P11.3 are consistent with the assessed risks
  - P12 clearly and accurately identify the device with the service user's unique reference and date of repair
  - P13 make complete, accurate and up-to-date records relating to the repair and store records in the correct location consistent with relevant legislation
  - P14 prepare and package the repaired device safely for despatch and return it to the relevant at the agreed time
  - P15 report any adverse incidents in line with organisational requirements

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### Knowledge and understanding

*You need to know and understand:*

- K1 the reasons for maintaining records throughout the process and of clearly identifying the products during the manufacturing process
- K2 the organisational procedures and requirements for the recording of information about incoming work, work in progress and work delivered, and the purpose of this
- K3 quality audit systems, their purpose, nature and procedures, impact of the relevant regulatory body, currently the Medicine and Healthcare Regulatory Authority, on the recording of incoming work, the detailed design and manufacturing specification and the recording of materials and processes
- K4 the principles of quality assurance, processes and procedures for quality assurance in your workplace
- K5 the methods used for setting and calibrating equipment and of testing that this is correct
- K6 the effects of modifying manufacturers' components and products to meet production/usage requirements on the physical properties of the components/products and the legal implications
- K7 the relevant regulatory body, currently the Medicine and Healthcare Regulatory Authority, in monitoring the progress of devices through the production process
- K8 health and safety at work legislation and related procedures and liability, principles of, and how to apply legislation and regulations
- K9 the characteristics, properties and the processing of the following commonly used materials:
  - K9.1 metals;
  - K9.2 plastics: thermoforming, thermosetting, composites;
  - K9.3 wood;
  - K9.4 leather;
  - K9.5 plaster of Paris;
  - K9.6 adhesives;
  - K9.7 fabrics;
  - K9.8 foams;
  - K9.9 other materials
- K10 the following:
  - K10.1 hand tools: their selection, use and maintenance
  - K10.2 measuring instruments: use and methods of application
  - K10.3 machine tools: selection, installation, use and maintenance
  - K10.4 welding processes and equipment for metals and plastics
  - K10.5 sewing machines: selection, use and maintenance
  - K10.6 general equipment: ovens, compressors, vacuum formers, fume and dust extraction apparatus

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- K10.7 workshop layout
- K10.8 health and safety regulations and practice
- K10.9 computers, including CAD/CAM
- K11 the musculo-skeletal system
- K12 anatomical terminology in relation to prosthetics/orthotics/special seating
- K13 the pathological conditions giving rise to prosthetic/orthotic/special seating provision and the relevant terminology

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### Additional Information

#### External links

This National Occupational Standard was developed by Skills for Health.

This standard links with the following dimension within the NHS Knowledge and Skills Framework (October 2004):

Dimension: HWB9 Equipment to meet health and wellbeing needs

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**Relevant occupations** Health and Social Care; Healthcare and Related Personal Services

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**Suite** Rehabilitation Technical Services

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