

SKSFDT2

Footwear and leathersgoods product testing(SQA Unit Code-HC31 04)



Overview

This standard is for laboratory technicians who test the physical performance characteristics materials used in footwear and leathersgoods products to determine their suitability for use in the chosen item.

You will be determining the tests to be carried out on particular materials, carrying out, analysing and recording tests on materials in a controlled environment. You will write detailed reports on the findings, identifying areas of non-conformance or variation and give feedback to technicians and others.

You will need to know about a range of general testing principles and the specialist properties of a range of materials used in footwear production.

The job role may involve:

1. Carrying out standard tests on relevant materials.
2. Analysing test results.
3. Preparing reports.

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Performance criteria

- You must be able to:*
- P1 make sure the work area is free from hazards
 - P2 determine the tests to carry out on particular materials
 - P3 select equipment/tools for the testing process
 - P4 ensure the test environment meets requirements for the testing process
 - P5 ensure there are no foreign bodies (i.e. broken needles, blades, tacks, metal content) within the product
 - P6 carry out testing to methods prescribed by the organisation and manufacturer
 - P7 carry out all tests in a controlled environment
 - P8 carry out simulation processes to determine how the product acts with age
 - P9 analyse, interpret and record test results
 - P10 write detailed report on results highlighting any areas of variation/non-conformance
 - P11 report feedback from testing to sample technician and other interested parties
 - P12 comply with written instructions
 - P13 complete forms, records and other documentation
 - P14 work to legal requirements, standards and regulations, policies, procedures and professional codes

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Knowledge and understanding

You need to know and understand:

- K1 general footwear/leathersgoods testing principles:
 - K1.1 colourfastness
 - K1.2 chemical testing
 - K1.3 physical testing
 - K1.4 tensile testing
 - K1.5 flex testing
 - K1.6 abrasion testing
- K2 specialist properties of materials used in the production of footwear
- K3 the key tests to carry out for a range of materials and components and banned and resistant substances
- K4 test control methods
- K5 which materials to test and how
- K6 standard test methods (abrasion resistance, colour fastness, washfastness etc.)
- K7 statistical variation
- K8 testing conditions required
- K9 the organisation's approach and policy on ethical trading / social accountability
- K10 statutory responsibilities under Health, Safety and Environmental legislation and regulations
- K11 common hazards in the work area and workplace procedures for dealing with them
- K12 the organisation's rules, codes, guidelines and standards
- K13 equipment operating procedures
- K14 manufacturers' instructions
- K15 the General Products Safety Directive
- K16 the use of banned and restricted substances / REACH, if applicable
- K17 footwear labelling directives

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