
Overview

This standard is for those who use knowledge of fabrics in relation to product design and production.

The job role may involve:

- 1 an understanding of the characteristics and behaviour of different fabrics
- 2 analysing designs
- 3 recommending appropriate fabrics for production

**Performance
criteria**

- You must be able to:
- P1 interpret the design requirements
 - P2 analyse the style and function of the design
 - P3 identify the fabric properties required
 - P4 recommend suitable fabrics for the design
 - P5 maintain an overall knowledge of:
 - P5.1 the properties of fibres and fabrics
 - P5.2 the characteristics of fabrics
 - P5.3 product production characteristics
 - P5.4 durability characteristics
 - P5.5 style characteristics
 - P5.6 utility characteristics
 - P6 complete appropriate records and documents
 - P7 communicate effectively with colleagues within the workplace and remotely
 - P8 use safe working practices including the use of equipment, personal conduct and arrangement of work station
 - P9 work to quality standards, systems and procedures
 - P10 identify problems and resolve issues within limits of your own responsibility
 - P11 report problems outside area of responsibility to the appropriate person
 - P12 work to legal requirements, standards and regulations, policies, procedures and professional codes

Knowledge and understanding

You need to know and understand:

- K1 how to interpret design briefs, working sketches and specifications
- K2 how to analyse information
- K3 how to evaluate findings and present recommendations
- K4 fabric and fibre properties including:
 - K4.1 fibre/ filament types
 - K4.2 yarn
 - K4.3 weight
 - K4.4 thickness
- K5 fabric structures including:
 - K5.1 woven fabrics
 - K5.2 knitted fabric
 - K5.3 finishes: chemicals such as resins, starches, waxes
 - K5.4 fabric width
 - K5.5 colour: hue, value and intensity (degree of brilliance)
 - K5.6 fabric density
 - K5.7 surface contour
- K6 product production working characteristics (characteristics which affect the quality and cost of production) including:
 - K6.1 coefficient of friction (cutting, sewing, pressing and packing)
 - K6.2 sewed seam strength
 - K6.3 sewed seam slippage (yarn slippage)
 - K6.4 sewing distortions
 - K6.5 yarn severage
 - K6.6 bond ability strength (fused, cemented, and heat – sealed seams)
 - K6.7 pressing moldeability (to what degree a flat piece of fabric may be skewed during pressing with hand and /press buck)
 - K6.8 die mouldability – how well a flat seamless piece of fabric may be moulded
- K7 utility characteristics, such as fabric elongation, elasticity, flexibility etc.
- K8 style characteristics of fabric including:
 - K8.1 hand characteristic (changes of the fabric plane with hand

You need to know
and understand:

- manipulations)
- K8.2 tactile characteristics (soft, coarse, rough, hard, smooth)
- K8.3 visual characteristics (changes in the colour values when either the fabric or light is moved)
- K9 transformation characteristics including:
 - K9.1 colour fastness
 - K9.2 crease resistance
 - K9.3 dimensional stability
 - K9.4 pilling
 - K9.5 shrinkage
- K10 durability characteristics - the capacities of fabric to maintain the style and utility characteristics during wear including:
 - K10.1 abrasive strength
 - K10.2 bursting strength
 - K10.3 launder ability
 - K10.4 tearing strength
 - K10.5 moth resistance
 - K10.6 tensile strength
 - K10.7 fire resistance
 - K10.8 dry cleaning durability
- K11 quality standards, systems and procedures
- K12 the limits of personal responsibility working practices
- K13 how to report problems outside of your area of responsibility
- K14 the importance of effective communication
- K15 the lines of communication, authority and reporting procedures
- K16 responsibilities under the health & safety at work act 1974 etc., with particular focus on appropriate posture when working at a visual display unit

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Apply fabric knowledge



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